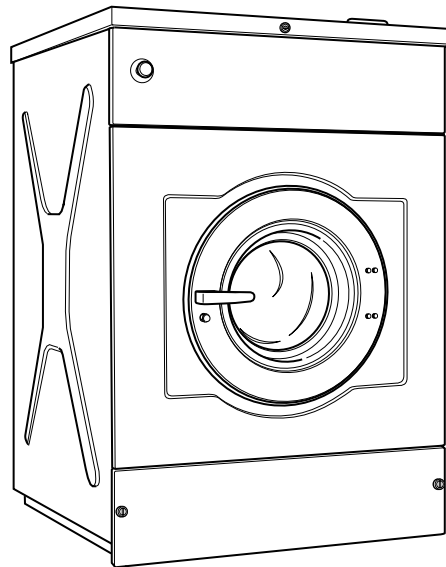


Washer-Extractors

Cabinet Hardmount

Refer to Page 5 for Model Identification



CFD796N_SVG

Original Instructions

Keep These Instructions for Future Reference.

(If this machine changes ownership, this manual must accompany machine.)

Table of Contents


Safety Information.....	5
Explanation of Safety Messages.....	5
Important Safety Instructions.....	5
Safety Decals.....	6
 Introduction.....	 7
Model Identification.....	7
Nameplate Location.....	9
Replacement Parts.....	9
Customer Service.....	9
 Specifications and Dimensions.....	 10
Specifications and Dimensions.....	10
 Installation.....	 30
Dimensional Clearances.....	30
Machine Foundation.....	31
Mechanical Installation.....	32
Frame Dimensions and Mounting Bolt Location.....	32
Mounting Bolt Installation (If Required).....	36
Models with 14 lb. (65 l), 18 lb. (75 l), 25 lb. (100 l), 30 lb. (135 l) and 35 lb. (165 l) Capacity.....	36
Models with 33 lb. (150 l), 40 lb. (185 l), 55 lb. (235 l), 75 lb. (305 l) and 90 lb. (400 l) Capacity.....	38
Drain Connection.....	39
Water Connection.....	42
WRAS Water Connection.....	44
Electrical Installation.....	44
Electrical Connection.....	58
Machine without Electric Heating.....	58
Machine with Electric Heating.....	58
Remote Liquid Supply Connection.....	58
Chemical Injection Supply System.....	59
Steam Requirements (Steam Heat Option Only).....	59
Supply Programming Table.....	60
Supply Relay Configuration (No Wiring).....	60
Primary 220 Volt Remote Liquid Supply Connection.....	61
Out-of-Balance Switch.....	61
Automatic Lubricator.....	62
Control Function Test.....	62


Disposal of Unit.....	63
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Safety Information

Explanation of Safety Messages

Precautionary statements [“DANGER,” “WARNING,” and “CAUTION”], followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

	DANGER
Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.	

	WARNING
Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.	


	CAUTION
Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.	

Additional precautionary statements [“IMPORTANT” and “NOTE”] are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

	WARNING
To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:	
W023	

- Read all instructions before using the washer.

- Install the washer according the INSTALLATION instructions. Refer to the GROUNDING instructions in the INSTALLATION manual for the proper grounding of the washer. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.
- Do not install or store the washer where it will be exposed to water and/or weather.
- To prevent fire and explosion, keep the area around machine free from flammable and combustible products. Do not add the following substances or textiles containing traces of the following substances to the wash water: gasoline, kerosene, waxes, cooking oils, vegetable oils, machine oils, dry-cleaning solvents, flammable chemicals, thinners, or other flammable or explosive substances. These substances give off vapors that could ignite, explode or cause the fabric to catch fire by itself.
- Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
- To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
- Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance. This is a safety rule for all appliances.
- DO NOT reach and/or climb into the tub or onto the washer, ESPECIALLY if the wash drum is moving. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Never operate the washer with any guards, panels and/or parts removed or broken. DO NOT bypass any safety devices or tamper with the controls.
- Use washer only for its intended purpose, washing textiles. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket or tub.
- Use only low-sudsing, no-foaming types of commercial detergent. Be aware that hazardous chemicals may be present. Wear hand and eye protection when adding detergents and chemicals. Always read and follow manufacturer’s instructions on packages of laundry and cleaning aids. Heed all

warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times [preferably in a locked cabinet].

- Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- Always follow the fabric care instructions supplied by the textile manufacturer.
- Loading door **MUST BE CLOSED** any time the washer is to fill, tumble or spin. **DO NOT** bypass the loading door switch by permitting the washer to operate with the loading door open. Do not attempt to open the door until the washer has drained and all moving parts have stopped.
- Be aware that hot water is used to flush the supply dispenser. Avoid opening the dispenser lid while the machine is running.
- Do not attach anything to the supply dispenser's nozzles, if applicable. The air gap must be maintained.
- Do not operate the machine without the water reuse plug or water reuse system in place, if applicable.
- Be sure water connections have a shut-off valve and that fill hose connections are tight. **CLOSE** the shut-off valves at the end of each wash day.
- Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
- **DANGER:** Before inspecting or servicing machine, power supply must be turned **OFF**. The servicer needs to wait for at least 5 minutes after turning the power **OFF** and needs to check for residual voltage with a voltage meter. The inverter capacitor or EMC filter remains charged with high voltage for some time after powering **OFF**. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out. **ALWAYS** disconnect the washer from electrical, power and water supplies before attempting any service.
- Disconnect the power by turning off the circuit breaker or by unplugging the machine. Replace worn power cords.
- Before the washer is removed from service or discarded, remove the door to the washing compartment.
- Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.



WARNING

Machine installations must comply with minimum specifications and requirements stated in the applicable Installation Manual, any applicable municipal building codes, water supply requirements, electrical wiring regulations and any other relevant statutory regulations. Due to varied requirements and applicable local codes, this machine must be installed, adjusted, and serviced by qualified maintenance personnel familiar with applicable local codes and the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury, property damage, and/or equipment damage, and will void the warranty.

W820

IMPORTANT: Ensure that the machine is installed on a level floor of sufficient strength. Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.



WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

Use manufacturer-authorized spare parts to avoid safety hazards.

Introduction

Model Identification

Information in this manual is applicable to these models:

CH018	CHG150	CHR075	CHW305	IH025	IHG150
CH025	CHG165	CHR090	CHW400	IH030	IHG165
CH040	CHG185	CHU065	CHY018	IH040	IHG185
CH055	CHG235	CHU075	CHY025	IH055	IHG235
CH075	CHG305	CHU100	CHY040	IH075	IHG305
CH090	CHG400	CHU135	CHY055	IH090	IHG400
CHE014	CHN065	CHU150	CHY075	IHA065	IHN065
CHE018	CHN075	CHU165	CHY090	IHA075	IHN075
CHE025	CHN100	CHU185	CHZ065	IHA100	IHN100
CHE030	CHN135	CHU235	CHZ075	IHA135	IHN135
CHE033	CHN150	CHU305	CHZ100	IHA150	IHN150
CHE035	CHN165	CHU400	CHZ135	IHA165	IHN165
CHE040	CHN185	CHW065	CHZ150	IHA185	IHN185
CHE055	CHN235	CHW075	CHZ165	IHA235	IHN235
CHE075	CHN305	CHW100	CHZ185	IHA305	IHN305
CHE090	CHN400	CHW135	CHZ235	IHA400	IHN400
CHG065	CHR018	CHW150	CHZ305	IHG065	IHN185
CHG075	CHR025	CHW165	CHZ400	IHG075	IHN235
CHG100	CHR040	CHW185	IH014	IHG100	IHN305
CHG135	CHR055	CHW235	IH018	IHG135	IHN400

IHR014	IHW150	IHZ185	WD150
IHR018	IHW165	IHZ235	WD165
IHR025	IHW185	IHZ305	WD185
IHR030	IHW235	IHZ400	WD235
IHR040	IHW305	PHU065	WD305
IHR055	IHW400	PHU075	WD400
IHR075	IHY014	PHU100	YHG065
IHR090	IHY018	PHU135	YHG075
IHU065	IHY025	PHU150	YHG100
IHU075	IHY030	PHU165	YHG135
IHU100	IHY033	PHU185	YHG150
IHU135	IHY035	PHU235	YHG165
IHU150	IHY040	PHU305	YHG185
IHU165	IHY055	PHU400	YHG235
IHU185	IHY075	SH018	YHG305
IHU235	IHY090	SH025	YHG400
IHU305	IHZ065	SHE018	
IHU400	IHZ075	SHE025	
IHW065	IHZ100	WD065	
IHW075	IHZ135	WD075	
IHW100	IHZ150	WD100	
IHW135	IHZ165	WD135	

Nameplate Location

The nameplate is located at the rear of the machine. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1*.

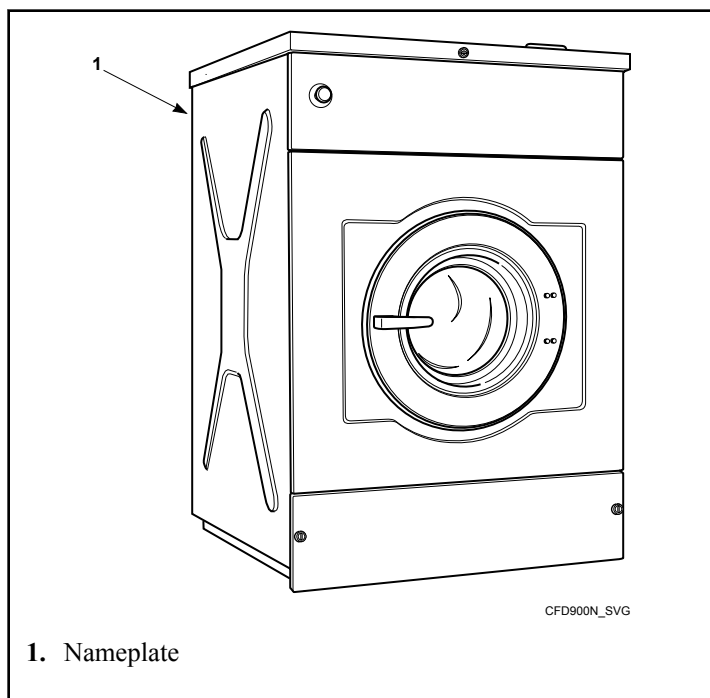


Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from which the machine was purchased or contact Alliance Laundry Systems at +1 (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, contact your local distributor or contact:

Alliance Laundry Systems

Shepard Street

P.O. Box 990

Ripon, WI 54971-0990

U.S.A.

www.alliancelaundry.com

Phone: +1 (920) 748-3121 Ripon, Wisconsin

Alliance International: +32 56 41 20 54 Wevelgem, Belgium

Specifications and Dimensions

Specifications and Dimensions

General Specifications						
Capacity lb. (l)	14 (65)	18 (75)	25 (100)	30 (135)	33 (150)	35 (165)
Overall Dimensions						
Overall width	25.98 in. [660 mm]	25.98 in. [660 mm]	25.98 in. [660 mm]	30.71 in. [780 mm]	30.71 in. [780 mm]	30.71 in. [780 mm]
Overall height	41.65 in. [1058 mm]	41.65 in. [1058 mm]	41.65 in. [1058 mm]	47.95 in. [1218 mm]	47.95 in. [1218 mm]	47.95 in. [1218 mm]
Overall depth	31.30 in. [795 mm]	31.30 in. [795 mm]	35.24 in. [895 mm]	34.65 in. [880 mm]	34.65 in. [880 mm]	38.58 in. [980 mm]
Weight and Shipping Information						
Net weight	364 lb. [165.3 kg]	379 lb. [171.95 kg]	395 lb. [179 kg]	555 lb. [252 kg]	607 lb. [275.4 kg]	558 lb. [253 kg]
Shipping weight	409 lb. [185.3 kg]	423 lb. [191.95 kg]	430 lb. [195 kg]	600 lb. [272 kg]	695 lb. [315.4 kg]	639 lb. [290 kg]
Shipping volume	25.34 ft ³ [0.72 m ³]	25.34 ft ³ [0.72 m ³]	28.65 ft ³ [0.81 m ³]	38.50 ft ³ [1.09 m ³]	38.37 ft ³ [1.09 m ³]	42.82 ft ³ [1.21 m ³]
Wash Cylinder Information						
Cylinder diameter	20.87 in. [530 mm]	20.87 in. [530 mm]	20.87 in. [530 mm]	25.59 in. [650 mm]	26.77 in. [680 mm]	25.59 in. [650 mm]
Cylinder depth	11.61 in. [295 mm]	12.99 in. [330 mm]	17.32 in. [440 mm]	15.75 in. [400 mm]	15.75 in. [400 mm]	19.69 in. [500 mm]
Cylinder volume	2.3 ft ³ [65 l]	2.6 ft ³ [73 l]	3.4 ft ³ [95 l]	4.7 ft ³ [132 l]	5.1 ft ³ [145 l]	5.8 ft ³ [165 l]
Perforation size	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]

General Specifications						
Capacity lb. (l)	14 (65)	18 (75)	25 (100)	30 (135)	33 (150)	35 (165)
Door Opening Information						
Door opening diameter	11.81 in. [300 mm]	11.81 in. [300 mm]	11.81 in. [300 mm]	15.75 in. [400 mm]	15.75 in. [400 mm]	15.75 in. [400 mm]
Height of door bottom above floor	11.22 in. [285 mm]	11.22 in. [285 mm]	11.22 in. [285 mm]	12.01 in. [305 mm]	11.61 in. [295 mm]	12.01 in. [305 mm]
Drive Train Information						
Number of motors in drive train	1	1	1	1	1	1
Drive motor power	1 HP (0.75 kW)	1 HP (0.75 kW)	1 HP (0.75 kW)	2 HP (1.5 kW)	2 HP (1.5 kW)	2 HP (1.5 kW)
Cylinder Speed						
Wash/reverse speed	10-50 RPM	10-50 RPM	10-50 RPM	10-50 RPM	10-50 RPM	10-50 RPM
Distribution/drain speed	82	82	82	74	73	74
Extract speed*	100-530 RPM	100-530 RPM	100-530 RPM	100-480 RPM	100-470 RPM	100-480 RPM
Extract speed**	100-700 RPM	100-700 RPM	100-700 RPM	100-630 RPM	100-660 RPM	100-630 RPM
Centrifugal Force Data						
Wash/reverse centrifugal force	0.03 - 0.74	0.03 - 0.74	0.03 - 0.74	0.04 - 0.91	0.04 - 0.95	0.04 - 0.91
Extract centrifugal force*	2 - 83 G	2 - 83 G	2 - 83 G	3 - 83 G	3 - 83 G	3 - 83 G
Extract centrifugal force**	2 - 144 G	2 - 144 G	2 - 144 G	3 - 143 G	3 - 165 G	3 - 143 G
Balance Detection						

General Specifications						
Capacity lb. (l)	14 (65)	18 (75)	25 (100)	30 (135)	33 (150)	35 (165)
Vibration safety switch installed*	NO	NO	NO	NO	NO	NO
Vibration safety switch installed**	NO	NO	NO	YES	YES	YES
Direct Steam Heating (Optional)						
Steam inlet connection size	1 x 3/8 in.	1 x 3/8 in.	1 x 3/8 in.	1 x 3/8 in.	1 x 3/8 in.	1 x 3/8 in.
Number of steam inlets	1	1	1	1	1	1
Noise (wash/spin)	52/68 dBa	52/68 dBa	52/68 dBa	62/73 dBa	62/73 dBa	62/73 dBa
* For models with L in the 9th position (e.g. ***075YELXWDG) of the manufacturing model number. ** For models with M in the 9th position (e.g. ***075YEMXWDG) of the manufacturing model number.						

Table 1

General Specifications				
Capacity lb. (l)	40 (185)	55 (235)	75 (305)	90 (400)
Overall Dimensions				
Overall width	30.71 in. [780 mm]	33.86 in. [860 mm]	38.98 in. [990 mm]	38.98 in. [990 mm]
Overall height	47.95 in. [1218 mm]	54.65 in. [1388 mm]	55.83 in. [1418 mm]	55.83 in. [1418 mm]
Overall depth	38.58 in. [980 mm]	41.14 in. [1045 mm]	45.67 in. [1160 mm]	52.36 in. [1330 mm]
Weight and Shipping Information				
Net weight	620 lb. [281 kg]	798 lb. [362 kg]	1085 lb. [492 kg]	1151 lb. [522 kg]
Shipping weight	708 lb. [321 kg]	871 lb. [395 kg]	1158 lb. [525 kg]	1244 lb. [564 kg]

General Specifications				
Capacity lb. (l)	40 (185)	55 (235)	75 (305)	90 (400)
Shipping volume	42.82 ft ³ [1.21 m ³]	61.94 ft ³ [1.75 m ³]	76.76 ft ³ [2.17 m ³]	87.86 ft ³ [2.49 m ³]
Wash Cylinder Information				
Cylinder diameter	26.77 in. [680 mm]	29.53 in. [750 mm]	33.46 in. [850 mm]	33.46 in. [850 mm]
Cylinder depth	19.69 in. [500 mm]	20.87 in. [530 mm]	21.14 in. [537 mm]	27.83 in. [707 mm]
Cylinder volume	6.4 ft ³ [181 l]	8.3 ft ³ [234 l]	10.7 ft ³ [304 l]	14.1 ft ³ [400 l]
Perforation size	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]
Door Opening Information				
Door opening diameter	15.75 in. [400 mm]	15.75 in. [400 mm]	15.75 in. [400 mm]	15.75 in. [400 mm]
Height of door bottom above floor	11.61 in. [295 mm]	16.14 in. [410 mm]	15.75 in. [400 mm]	15.75 in. [400 mm]
Drive Train Information				
Number of motors in drive train	1	1	1	1
Drive motor power	2 HP (1.5 kW)	3 HP (2.2 kW)	4 HP (3 kW)	4 HP (3 kW)
Cylinder Speeds				
Wash/reverse speed	10-50 RPM	10-49 RPM	10-46 RPM	10-46 RPM
Distribution/drain speed	73	69	65	65
Extract speed*	100-470 RPM	100-450 RPM	100-420 RPM	100-420 RPM
Extract speed**	100-660 RPM	100-630 RPM	100-590 RPM	N/A

General Specifications				
Capacity lb. (l)	40 (185)	55 (235)	75 (305)	90 (400)
Centrifugal Force Data				
Wash/reverse centrifugal force	0.04 - 0.95	0.04 - 1.00	0.05 - 1.00	0.05 - 1.00
Extract centrifugal force*	3 - 83 G	4 - 83 G	4 - 83 G	4 - 83 G
Extract centrifugal force**	3 - 165 G	4 - 166 G	4 - 165 G	N/A
Balance Detection				
Vibration safety switch installed*	NO	NO	NO	NO
Vibration safety switch installed**	YES	YES	YES	N/A
Direct Steam Heating (Optional)				
Steam inlet connection size	1 x 3/8 in.	1 x 1/2 in.	1 x 1/2 in.	1 x 1/2 in.
Number of steam inlets	1	1	1	1
Noise (wash/spin)	62/73 dBA	64/85 dBA	66/86 dBA	66/86 dBA
* For models with L in the 9th position (e.g. ***075YELXWDG) of the manufacturing model number. ** For models with M in the 9th position (e.g. ***075YEMXWDG) of the manufacturing model number.				

Table 2

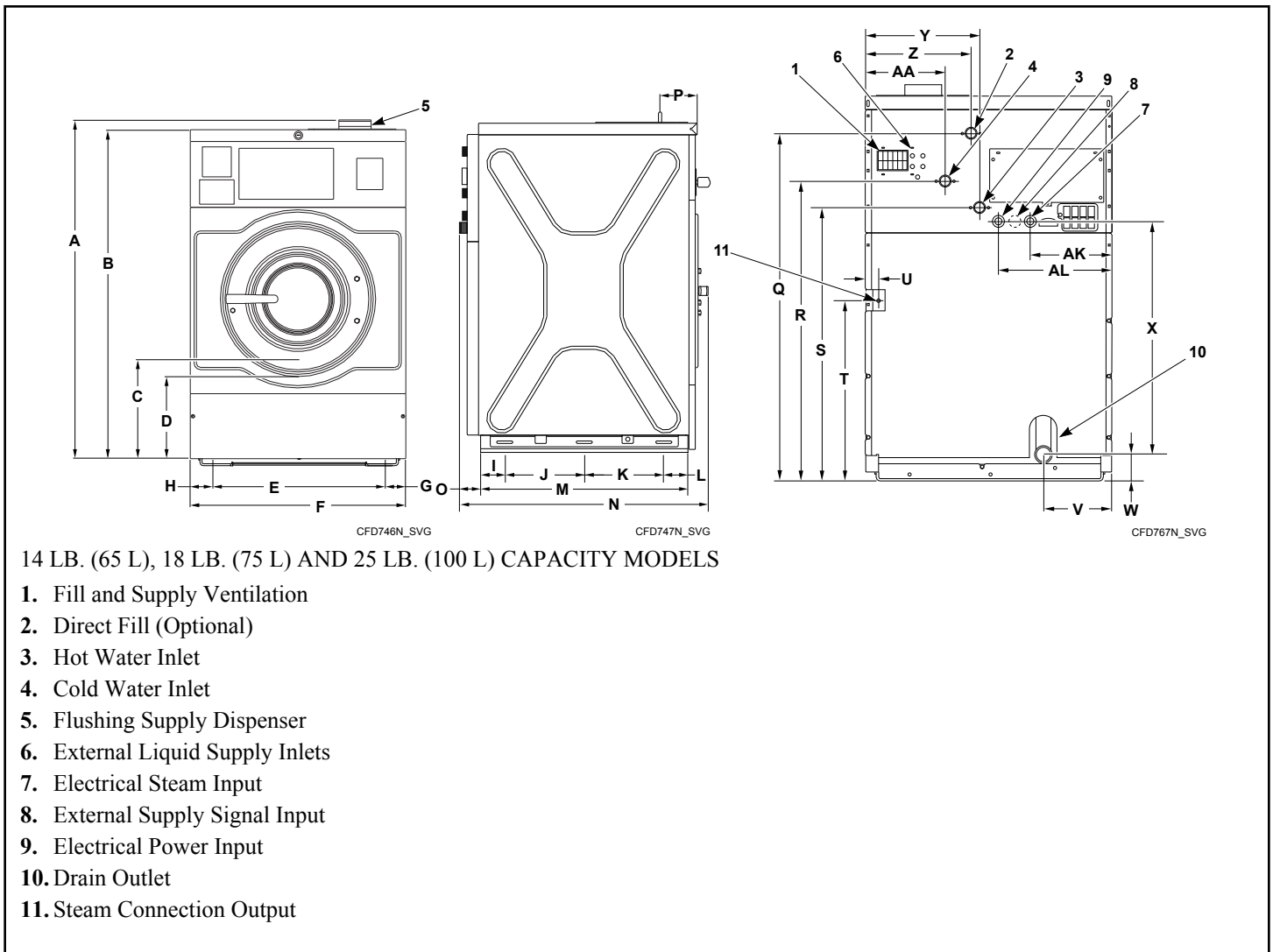


Figure 2

Machine Capacity lb. (l)			
	14 (65)	18 (75)	25 (100)
	inch [mm]	inch [mm]	inch [mm]
A	41.65 [1058]	41.65 [1058]	41.65 [1058]
B	40.55 [1030]	40.55 [1030]	40.55 [1030]
C	14.17 [360]	14.17 [360]	14.17 [360]
D	11.22 [285]	11.22 [285]	11.22 [285]

Machine Capacity lb. (l)			
	14 (65)	18 (75)	25 (100)
	inch [mm]	inch [mm]	inch [mm]
E	21.65 [550]	21.65 [550]	21.65 [550]
F	25.98 [660]	25.98 [660]	25.98 [660]
G	2.17 [55]	2.17 [55]	2.17 [55]
H	2.17 [55]	2.17 [55]	2.17 [55]
I	1.77 [45]	1.77 [45]	1.77 [45]
J	10.75 [273]	9.17 [233]	9.17 [233]
K	11.3 [287]	12.87 [327]	16.81 [427]
L	1.77 [45]	1.77 [45]	1.77 [45]
M	25.59 [650]	25.59 [650]	29.53 [750]
N	31.30 [795]	31.30 [795]	35.24 [895]
O	2.56 [65]	2.56 [65]	2.56 [65]
P	3.74 [95]	3.74 [95]	3.74 [95]
Q	36.42 [925]	36.42 [925]	36.42 [925]
R	31.50 [800]	31.50 [800]	31.50 [800]
S	29.13 [740]	29.13 [740]	29.13 [740]
T	19.29 [490]	19.29 [490]	19.29 [490]
U	1.38 [35]	1.38 [35]	1.38 [35]

Machine Capacity lb. (l)			
	14 (65)	18 (75)	25 (100)
	inch [mm]	inch [mm]	inch [mm]
V	7.09 [180]	7.09 [180]	7.09 [180]
W	2.95 [75]	2.95 [75]	2.95 [75]
X	27.56 [700]	27.56 [700]	27.56 [700]
Y	12.40 [315]	12.40 [315]	12.40 [315]
Z	11.61 [295]	11.61 [295]	11.61 [295]
AA	9.06 [230]	9.06 [230]	9.06 [230]
AK	8.27 [210]	8.27 [210]	8.27 [210]
AL	11.42 [290]	11.42 [290]	11.42 [290]

Table 3

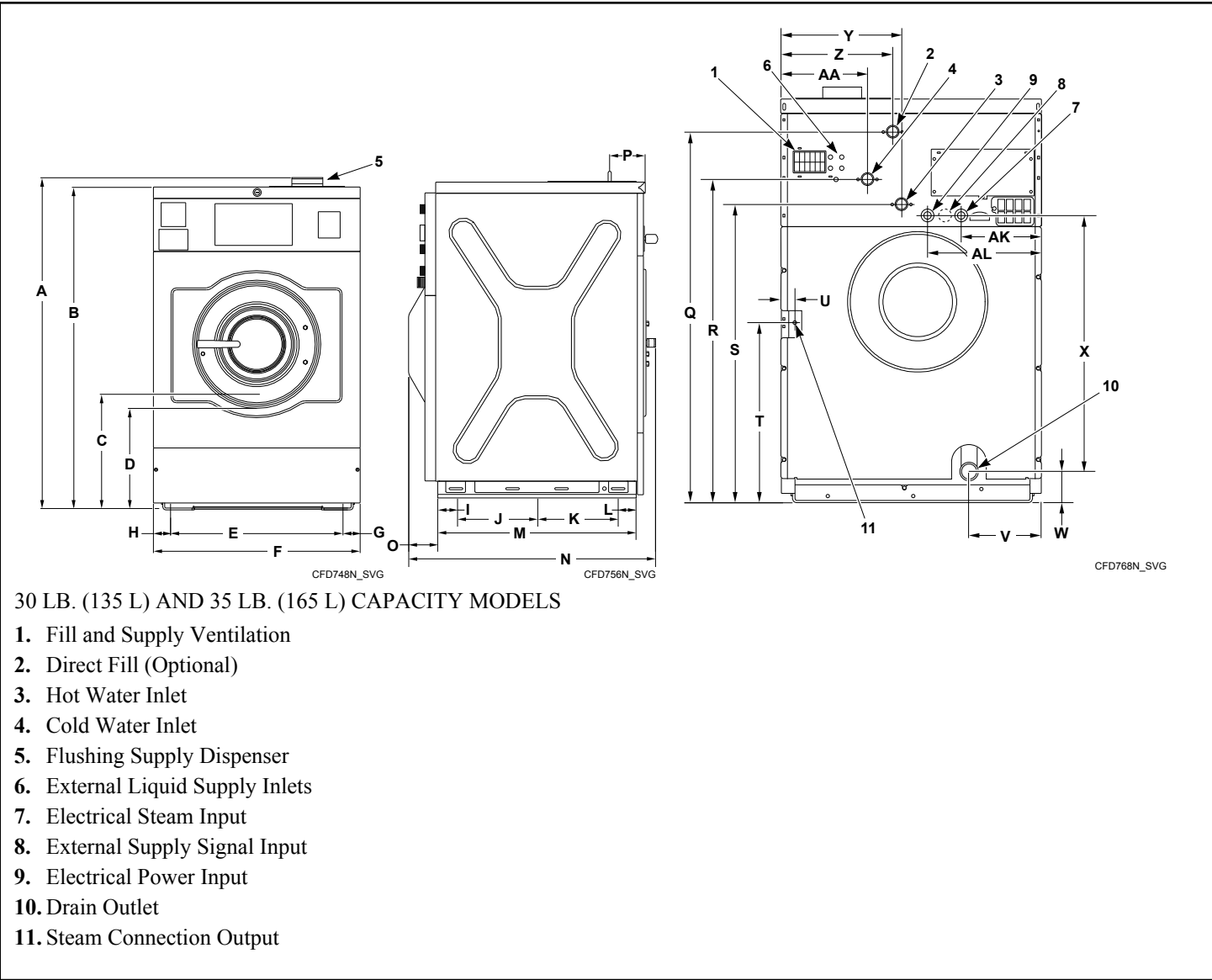


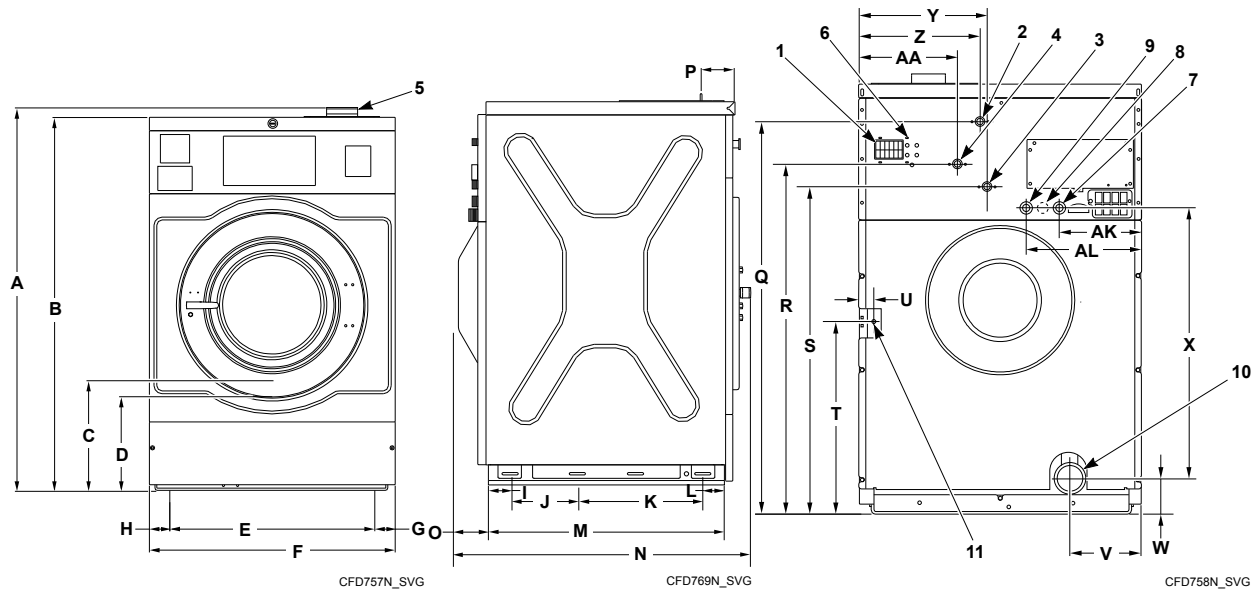
Figure 3

Machine Capacity lb. (l)		
	30 (135)	35 (165)
	inch [mm]	inch [mm]
A	47.95 [1218]	47.95 [1218]
B	46.85 [1190]	46.85 [1190]
C	15.75 [400]	15.75 [400]

Machine Capacity lb. (l)		
	30 (135)	35 (165)
	inch [mm]	inch [mm]
D	12.01 [305]	12.01 [305]
E	25.20 [640]	25.20 [640]
F	30.71 [780]	30.71 [780]
G	2.76 [70]	2.76 [70]
H	2.76 [70]	2.76 [70]
I	1.10 [28]	1.10 [28]
J	10.24 [260]	10.24 [260]
K	16.14 [410]	20.08 [510]
L	1.10 [28]	1.10 [28]
M	28.58 [726]	32.52 [826]
N	34.65 [880]	38.58 [980]
O	2.56 [65]	2.56 [65]
P	3.74 [95]	3.74 [95]
Q	42.72 [1085]	42.72 [1085]
R	37.80 [960]	37.80 [960]
S	35.43 [900]	35.43 [900]
T	20.87 [530]	20.87 [530]

Machine Capacity lb. (l)		
	30 (135)	35 (165)
	inch [mm]	inch [mm]
U	1.38 [35]	1.38 [35]
V	7.87 [200]	7.87 [200]
W	3.74 [95]	3.74 [95]
X	33.66 [855]	33.66 [855]
Y	13.98 [355]	13.98 [355]
Z	13.19 [335]	13.19 [335]
AA	10.63 [270]	10.63 [270]
AK	8.27 [210]	8.27 [210]
AL	11.42 [290]	11.42 [290]

Table 4



33 LB. (150 L) AND 40 LB. (185 L) CAPACITY MODELS

1. Fill and Supply Ventilation
2. Direct Fill (Optional)
3. Hot Water Inlet
4. Cold Water Inlet
5. Flushing Supply Dispenser
6. External Liquid Supply Inlets
7. Electrical Steam Input
8. External Supply Signal Input
9. Electrical Power Input
10. Drain Outlet
11. Steam Connection Output

Figure 4

Machine Capacity lb. (l)		
	33 (150)	40 (185)
	inch [mm]	inch [mm]
A	47.95 [1218]	47.95 [1218]
B	46.85 [1190]	46.85 [1190]
C	15.35 [390]	15.35 [390]
D	11.61 [295]	11.61 [295]

Machine Capacity lb. (l)		
	33 (150)	40 (185)
	inch [mm]	inch [mm]
E	25.20 [640]	25.20 [640]
F	30.71 [780]	30.71 [780]
G	2.76 [70]	2.76 [70]
H	2.76 [70]	2.76 [70]
I	1.10 [28]	1.10 [28]
J	10.24 [260]	10.24 [260]
K	16.14 [410]	20.08 [510]
L	1.10 [28]	1.10 [28]
M	28.58 [726]	32.52 [826]
N	34.65 [880]	38.58 [980]
O	2.56 [65]	2.56 [65]
P	3.74 [95]	3.74 [95]
Q	42.72 [1085]	42.72 [1085]
R	37.80 [960]	37.80 [960]
S	35.43 [900]	35.43 [900]
T	20.87 [530]	20.87 [530]
U	1.38 [35]	1.38 [35]

Machine Capacity lb. (l)		
	33 (150)	40 (185)
	inch [mm]	inch [mm]
V	7.87 [200]	7.87 [200]
W	3.74 [95]	3.74 [95]
X	33.66 [855]	33.66 [855]
Y	14.02 [356]	13.98 [355]
Z	13.19 [335]	13.19 [335]
AA	10.63 [270]	10.63 [270]
AK	8.27 [210]	8.27 [210]
AL	11.42 [290]	11.42 [290]

Table 5

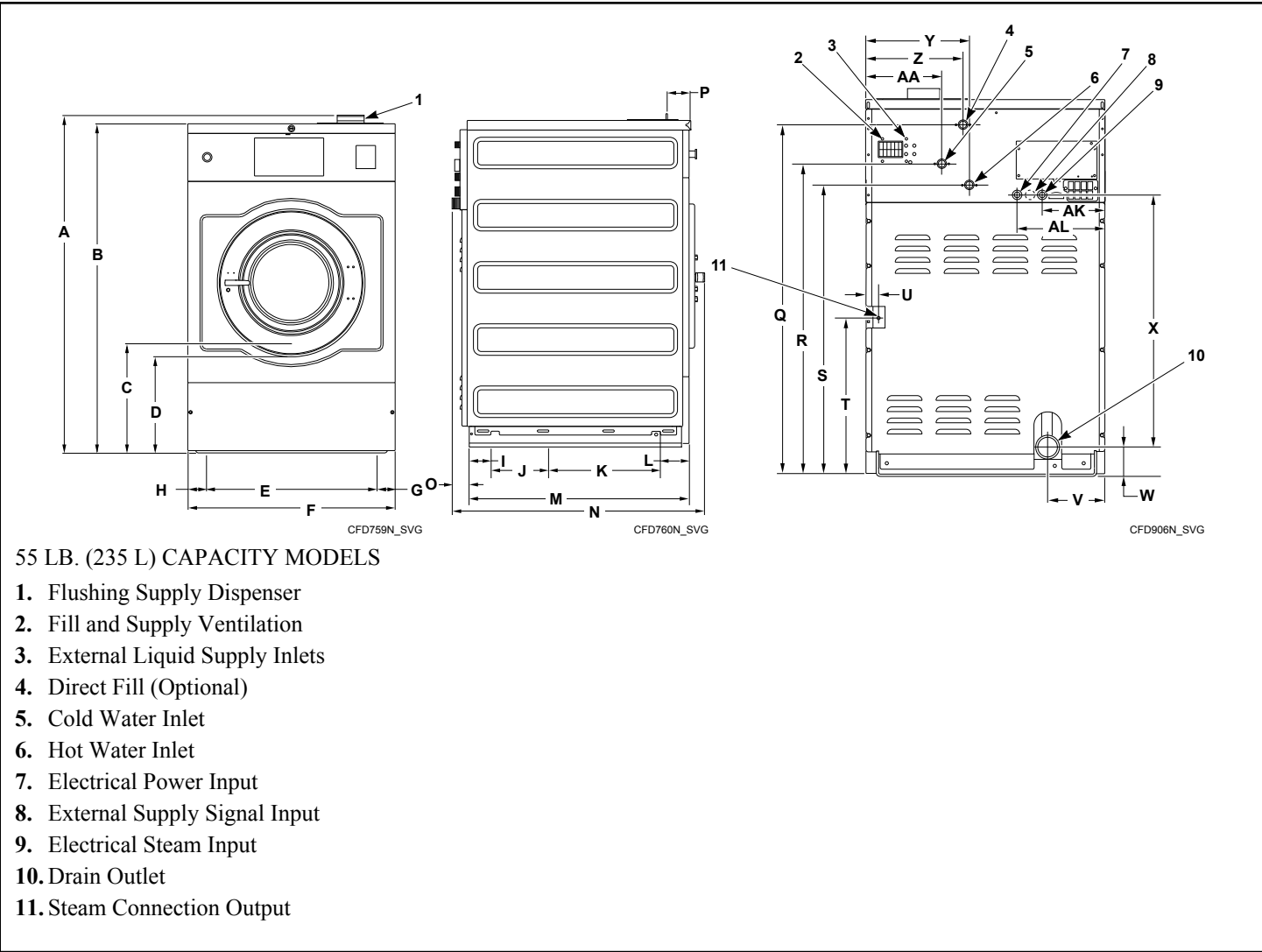


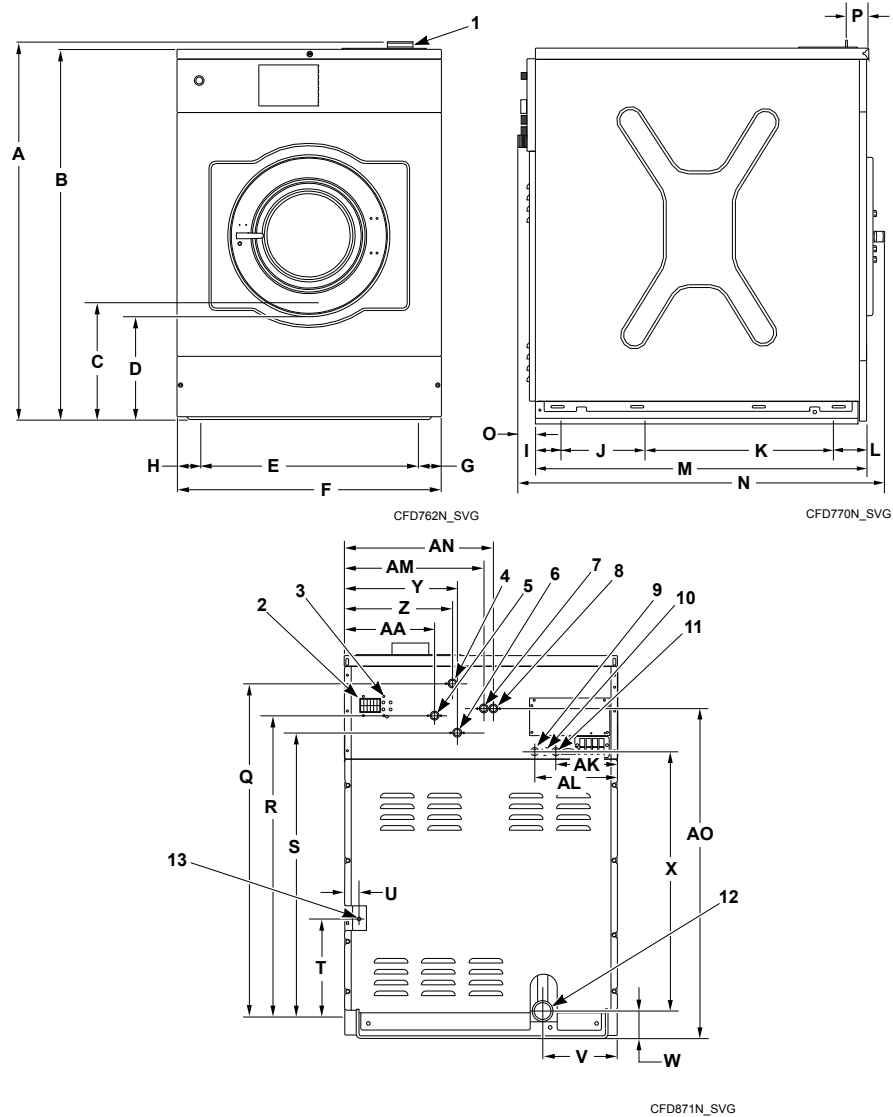
Figure 5

Machine Capacity lb. (l)	
	55 (235)
	inch [mm]
A	54.65 [1388]
B	53.54 [1360]
C	19.88 [505]
D	16.14 [410]

Machine Capacity lb. (l)	
	55 (235)
	inch [mm]
E	26.77 [680]
F	33.86 [860]
G	3.54 [90]
H	3.54 [90]
I	1.97 [50]
J	11.10 [282]
K	20.39 [518]
L	1.97 [50]
M	35.43 [900]
N	41.14 [1045]
O	2.56 [65]
P	3.94 [100]
Q	49.21 [1250]
R	44.29 [1125]
S	41.93 [1065]
T	22.64 [575]
U	1.38 [35]

Machine Capacity lb. (l)	
	55 (235)
	inch [mm]
V	7.87 [200]
W	3.74 [95]
X	39.96 [1015]
Y	14.57 [370]
Z	13.78 [350]
AA	11.22 [285]
AK	8.46 [215]
AL	11.61 [295]

Table 6



75 LB. (305 L) AND 90 LB. (400 L) CAPACITY MODELS

1. Flushing Supply Dispenser
2. Fill and Supply Ventilation
3. External Liquid Supply Inlets
4. Direct Fill (Optional)
5. Cold Water Inlet
6. Hot Water Inlet
7. Cold Water Inlet
8. Hot Water Inlet
9. Electrical Power Input
10. External Supply Signal Input
11. Electrical Steam Input
12. Drain Outlet
13. Steam Connection Output

Figure 6

Machine Capacity lb. (l)		
	75 (305)	90 (400)
	inch [mm]	inch [mm]
A	55.83 [1418]	55.83 [1418]
B	54.72 [1390]	54.72 [1390]
C	19.49 [495]	19.49 [495]
D	15.75 [400]	15.75 [400]
E	33.46 [850]	33.46 [850]
F	38.98 [990]	38.98 [990]
G	2.76 [70]	2.76 [70]
H	2.76 [70]	2.76 [70]
I	2.60 [66]	2.60 [66]
J	13.66 [347]	13.66 [347]
K	22.44 [570]	29.13 [740]
L	1.85 [47]	1.85 [47]
M	40.55 [1030]	47.24 [1200]
N	45.67 [1160]	52.36 [1330]
O	2.56 [65]	2.56 [65]
P	3.94 [100]	3.94 [100]
Q	50.59 [1285]	50.59 [1285]
R	45.67 [1160]	45.67 [1160]

Machine Capacity lb. (l)		
	75 (305)	90 (400)
	inch [mm]	inch [mm]
S	43.31 [1100]	43.31 [1100]
T	17.13 [435]	17.13 [435]
U	1.38 [35]	1.38 [35]
V	10.83 [275]	10.83 [275]
W	3.74 [95]	3.74 [95]
X	41.14 [1045]	41.14 [1045]
Y	15.16 [385]	15.16 [385]
Z	14.37 [365]	14.37 [365]
AA	11.81 [300]	11.81 [300]
AK	8.46 [215]	8.46 [215]
AL	11.61 [295]	11.61 [295]
AM	18.50 [470]	18.50 [470]
AN	20.08 [510]	20.08 [510]
AO	46.85 [1190]	46.85 [1190]

Table 7

Installation

Dimensional Clearances

Table 8 and Table 9 show recommended minimum clearances on all sides of the machine.

Recommended Minimum Clearances - 14 lb. (65 l), 18 lb. (75 l), 25 lb. (100 l), 30 lb. (135 l) and 33 lb. (150 l) Models					
Capacity lb. (l)	14 (65)	18 (75)	25 (100)	30 (135)	33 (150)
Minimum rear clearance	24 in. [600 mm]	24 in. [600 mm]	24 in. [600 mm]	24 in. [600 mm]	24 in. [600 mm]
Minimum clearance between machine and wall	6 in. [150 mm]	6 in. [150 mm]	6 in. [150 mm]	6 in. [150 mm]	6 in. [150 mm]
Minimum clearance between machines (side)	0.40 in. [10 mm]	0.40 in. [10 mm]	0.40 in. [10 mm]	0.40 in. [10 mm]	0.40 in. [10 mm]
Minimum front clearance (door swing)	16.73 in. [425 mm]	16.73 in. [425 mm]	16.73 in. [425 mm]	22.05 in. [560 mm]	22.05 in. [560 mm]

Table 8

Recommended Minimum Clearances - 35 lb. (165 l), 40 lb. (185 l), 55 lb. (235 l), 75 lb. (305 l) and 90 lb. (400 l) Models					
Capacity lb. (l)	35 (165)	40 (185)	55 (235)	75 (305)	90 (400)
Minimum rear clearance	24 in. [600 mm]	24 in. [600 mm]	24 in. [600 mm]	24 in. [600 mm]	24 in. [600 mm]
Minimum clearance between machine and wall	6 in. [150 mm]	6 in. [150 mm]	6 in. [150 mm]	6 in. [150 mm]	6 in. [150 mm]
Minimum clearance between machines (side)	0.40 in. [10 mm]	0.40 in. [10 mm]	0.40 in. [10 mm]	0.40 in. [10 mm]	0.40 in. [10 mm]

Recommended Minimum Clearances - 35 lb. (165 l), 40 lb. (185 l), 55 lb. (235 l), 75 lb. (305 l) and 90 lb. (400 l) Models					
Capacity lb. (l)	35 (165)	40 (185)	55 (235)	75 (305)	90 (400)
Minimum front clearance (door swing)	22.05 in. [560 mm]	22.05 in. [560 mm]	22.05 in. [560 mm]	22.05 in. [560 mm]	22.05 in. [560 mm]

Table 9

Machine Foundation

Thoroughness of detail must be stressed with all foundation work to ensure a stable unit installation, eliminating possibilities of excessive vibration during extract.


The machine must be placed on a smooth level surface so that the entire base of the machine is supported and rests on the mounting surface.

The standard installation always requires anchoring.

Static and dynamic loads on the floor or foundation are shown in *Table 10* and *Table 11*.

Table 10 and *Table 11* can be used as a reference when designing floors and foundations.

If installing a foundation and pad, prepare a form for the above-ground portion of the foundation. Verify that the top of the foundation is level. The height of the foundation and pad must not exceed 8 inches [203 mm] above the existing floor.

	CAUTION
<p>Ensure that the machine is installed on a level floor of sufficient strength and that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.</p> <p>W488</p>	

Floor Load Data - 14 lb. (65 l), 18 lb. (75 l), 25 lb. (100 l), 30 lb. (135 l) and 33 lb. (150 l) Models					
Capacity lb. (l)	14 (65)	18 (75)	25 (100)	30 (135)	33 (150)
Kinetic Energy of the Cylinder, (N/m)*	2549	2816	3522	5967	7513
Kinetic Energy of the Cylinder, (N/m)**	4447	4912	6143	10280	14815
Dynamic Bottom Load, (N/Hz)*	1176/8.8	1321/8.8	1719/8.8	2389/8	2715/7.8
Dynamic Bottom Load, (N/Hz)**	2080/11.7	2336/11.7	3040/11.7	4225/10.5	5463/11

Table 10

*For models with L in the 9th position (e.g., ***075YELXWDG) of the manufacturing model number.

For models with M in the 9th position (e.g., *075YEMXWDG) of the manufacturing model number.

Floor Load Data - 35 lb. (165 l), 40 lb. (185 l), 55 lb. (235 l), 75 lb. (305 l) and 90 lb. (400 l) Models					
Capacity lb. (l)	35 (165)	40 (185)	55 (235)	75 (305)	90 (400)
Kinetic Energy of the Cylinder, (N/m)*	7215	8840	12677	17253	21613
Kinetic Energy of the Cylinder, (N/m)**	12429	17431	24847	34046	N/A
Dynamic Bottom Load, (N/Hz)*	2968/8	3348/7.8	4235/7.5	5520/7	7240/7
Dynamic Bottom Load, (N/Hz)**	5249/10.5	6738/11	8522/10.5	11072/9.8	N/A

Table 11

*For models with L in the 9th position (e.g., ***075YELXWDG) of the manufacturing model number.

**For models with M in the 9th position (e.g.,

***075YEMXWDG) of the manufacturing model number.

Frame Dimensions and Mounting Bolt Location

IMPORTANT: Drawings are not to scale.

Mounting Bolt Hole Locations for Hardmount Models with 14 lb. (65 l), 18 lb. (75 l) and 25 lb. (100 l) Capacity

Mechanical Installation

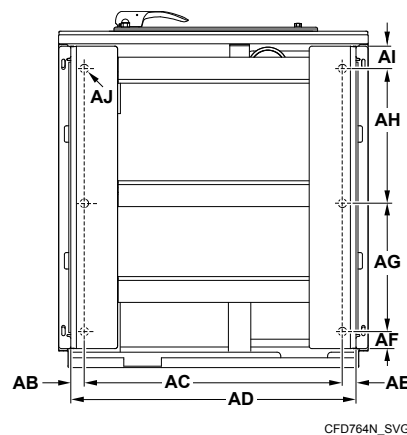


Figure 7

Machine Capacity lb. (l)			
	14 (65)	18 (75)	25 (100)
	inch [mm]	inch [mm]	inch [mm]
AB	1.18 [30]	1.18 [30]	1.18 [30]
AC	21.65 [550]	21.65 [550]	21.65 [550]
AD	23.94 [608]	23.94 [608]	23.94 [608]
AE	1.18 [30]	1.18 [30]	1.18 [30]
AF	1.77 [45]	1.77 [45]	1.77 [45]
AG	9.17 [233]	9.17 [233]	9.17 [233]
AH	12.87 [327]	12.87 [327]	16.81 [427]
AI	1.77 [45]	1.77 [45]	1.77 [45]
AJ	0.71 [18]	0.71 [18]	0.71 [18]

Table 12

**Mounting Bolt Hole Locations for Hardmount Models
with 30 lb. (135 l) and 35 lb. (165 l) Capacity**

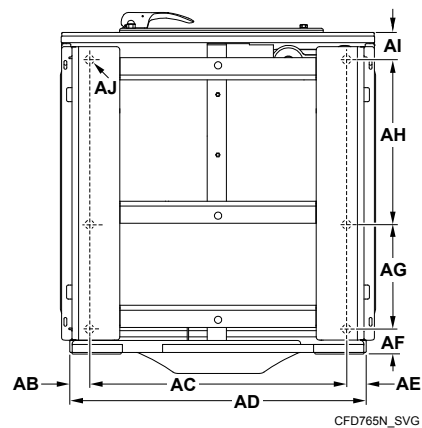


Figure 8

Machine Capacity lb. (l)		
	30 (135)	35 (165)
	in [mm]	in [mm]
AB	1.73 [44]	1.73 [44]
AC	25.20 [640]	25.20 [640]
AD	28.62 [727]	28.62 [727]
AE	1.73 [44]	1.73 [44]
AF	1.10 [28]	1.10 [28]
AG	10.24 [260]	10.24 [260]
AH	16.14 [410]	20.08 [510]
AI	1.10 [28]	1.10 [28]
AJ	0.87 [22]	0.87 [22]

Table 13

**Mounting Bolt Hole Locations for Hardmount Models
with 33 lb. (150 l), 40 lb. (185 l), 55 lb. (235 l), 75 lb. (305
l) and 90 lb. (400 l) Capacity**

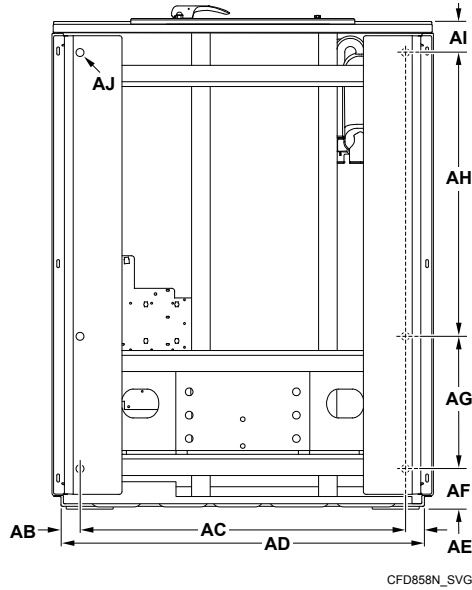



Figure 9

Machine Capacity lb. (l)					
	33 (150)	40 (185)	55 (235)	75 (305)	90 (400)
	in [mm]	in [mm]	in [mm]	in [mm]	in [mm]
AB	1.73 [44]	1.73 [44]	2.28 [58]	1.57 [40]	1.57 [40]
AC	25.20 [640]	25.20 [640]	26.77 [680]	33.46 [850]	33.46 [850]
AD	28.62 [727]	28.62 [727]	31.34 [796]	36.61 [930]	36.61 [930]
AE	1.73 [44]	1.73 [44]	2.28 [58]	1.57 [40]	1.57 [40]
AF	1.10 [28]	1.10 [28]	1.97 [50]	2.60 [66]	2.60 [66]
AG	10.24 [260]	10.24 [260]	11.10 [282]	13.66 [347]	13.66 [347]
AH	16.14 [410]	20.08 [510]	20.39 [518]	22.44 [570]	29.13 [740]
AI	1.10 [28]	1.10 [28]	1.97 [50]	1.85 [47]	1.85 [47]

Machine Capacity lb. (l)					
	33 (150)	40 (185)	55 (235)	75 (305)	90 (400)
AJ	0.87 [22]	0.87 [22]	0.87 [22]	0.87 [22]	0.87 [22]

Table 14

Mounting Bolt Installation (If Required)

	<h3>CAUTION</h3>
<p>Ensure that the machine is installed on a level floor of sufficient strength and that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.</p>	
W488	

Models with 14 lb. (65 l), 18 lb. (75 l), 25 lb. (100 l), 30 lb. (135 l) and 35 lb. (165 l) Capacity

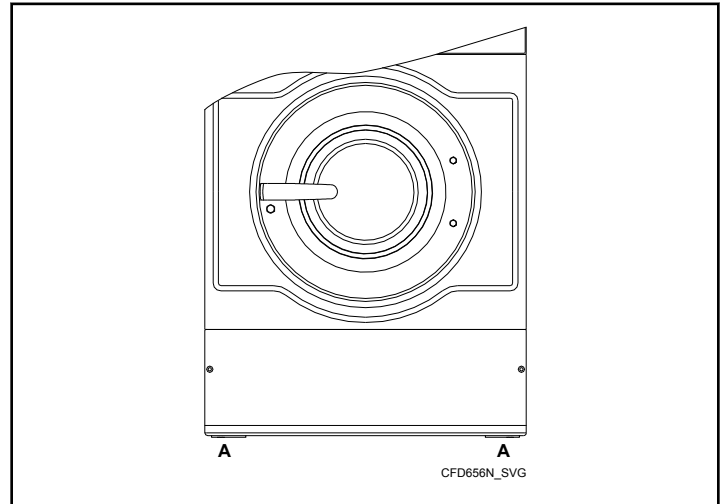


Figure 10

Surface

The machine must be securely fixed on a flat surface (metal base, concrete or solid ground). The anchoring is to be done on the provided places (A), refer to *Figure 10*, in the holes on the corner of the base. Refer to Mounting Bolt Hole Locations.

The machine must be placed entirely level. For easy maintenance it is recommended to keep a minimal distance of 24 inches [600 mm] between the wall and the back of the machine.

If several machines are placed next to each another, there should be a minimal distance of .4 inches [10 mm] between each machine.

Anchoring On A Metal Base

NOTE: The machines must be fixed on a metal base which is securely anchored on a concrete base. See *Bolt*.

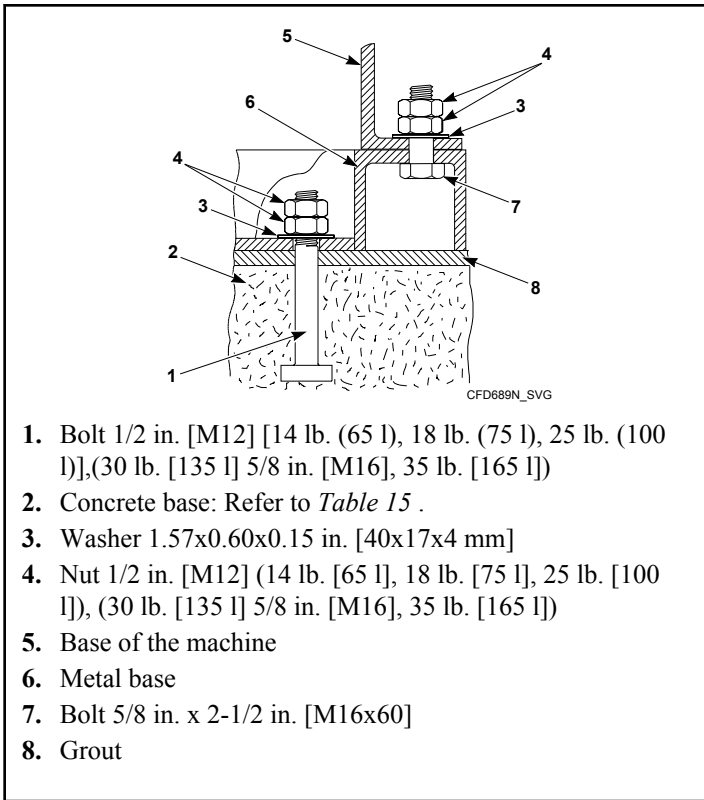


Figure 11

Capacity		14 lb. (65 l)	18 lb. (75 l)	25 lb. (100 l)	30 lb. (135 l)	35 lb. (165 l)
Minimum foundation thickness	Low Speed *	4 in. [102 mm]	4 in. [102 mm]	4 in. [102 mm]	4 in. [102 mm]	4 in. [102 mm]
	Medium Speed **	6 in. [152 mm]	6 in. [152 mm]	6 in. [152 mm]	8 in. [203 mm]	8 in. [203 mm]

Table 15

* For models with L in the 9th position (**075YELXWDG) of the manufacturing model number.

** For models with M in the 9th position (**075YEMXWDG) of the manufacturing model number.

Directly on the Ground

NOTE: The machines must be anchored directly on a concrete base. See *Figure 12* .

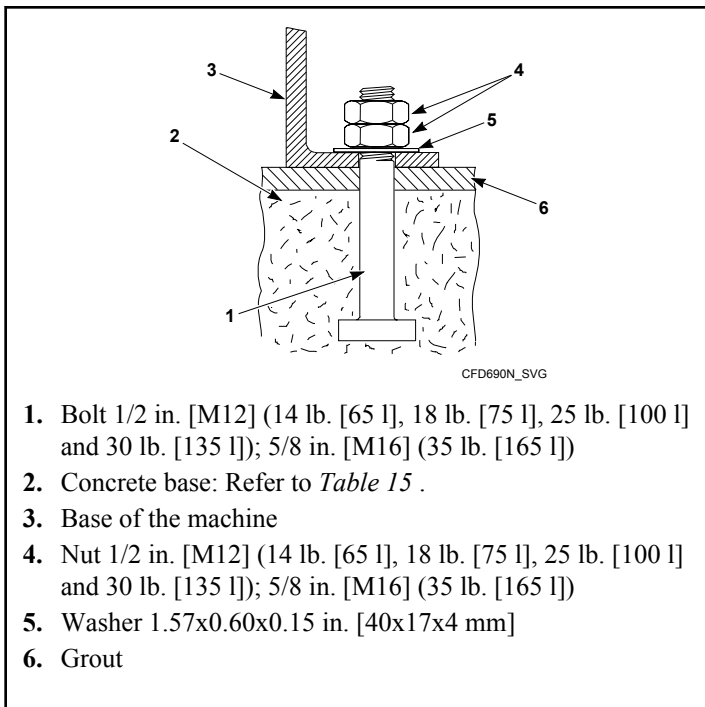


Figure 12

NOTE: Machine bolts should be rechecked on a quarterly basis.

Models with 33 lb. (150 l), 40 lb. (185 l), 55 lb. (235 l), 75 lb. (305 l) and 90 lb. (400 l) Capacity

	<h2>CAUTION</h2>
<p>Ensure that the machine is installed on a level floor of sufficient strength and that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.</p>	
<p>W488</p>	

Surface

The machine must be securely fixed on a flat surface (metal base, concrete or solid ground). The anchoring is to be done on the provided places (A), refer to *Figure 13* , in the holes on the corner of the base. Refer to Mounting Bolt Hole Locations.

The machine must be placed entirely level. For easy maintenance it is recommended to keep a minimal distance of 24 inches [600 mm] between the wall and the back of the machine.

If several machines are placed next to each other, there should be a minimal distance of .4 inches [10 mm] between each machine.

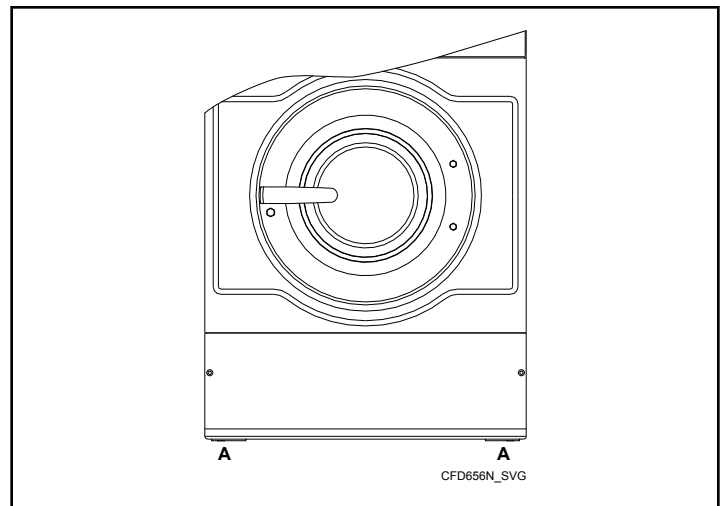


Figure 13

Anchoring On A Metal Base

NOTE: The machines must be fixed on a metal base which is securely anchored on a concrete base. See *Figure 14* .

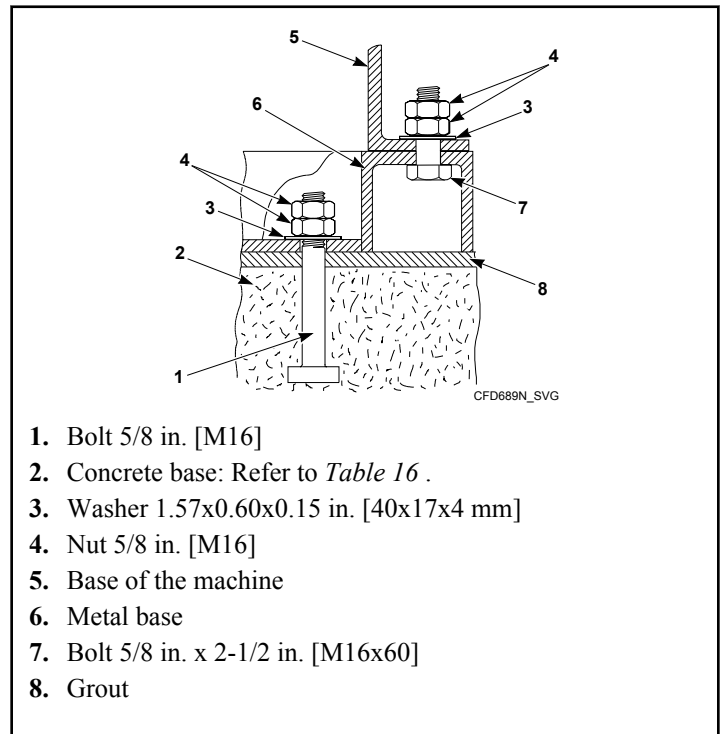


Figure 14

Capacity		33 lb. (150 l)	40 lb. (185 l)	55 lb. (235 l)	75 lb. (305 l)	90 lb. (400 l)
Minimum foundation thickness	Low Speed *	4 in. [102 mm]	6 in. [152 mm]	6 in. [152 mm]	8 in. [203 mm]	8 in. [203 mm]
	Medium Speed **	12 in. [305 mm]	12 in. [305 mm]	16 in. [406 mm]	16 in. [406 mm]	n/a

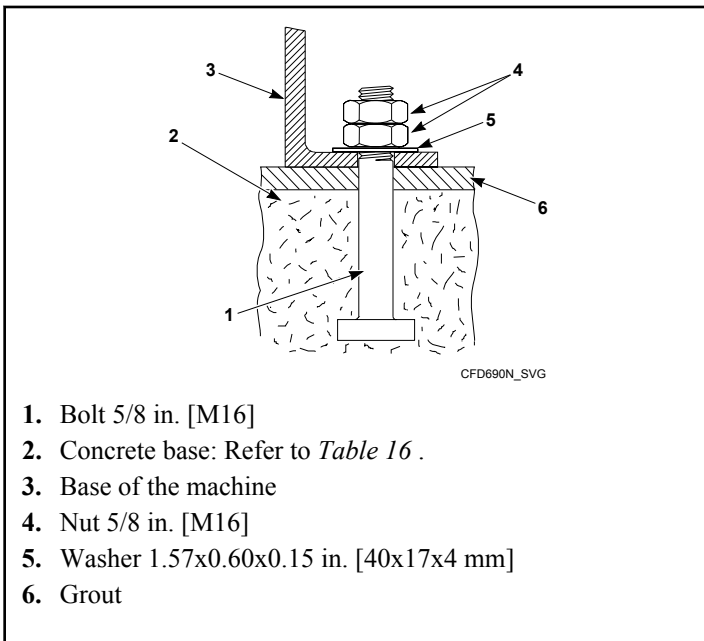
Table 16

* For models with L in the 9th position (**075YELXWDG) of the manufacturing model number.

** For models with M in the 9th position (**075YEMXWDG) of the manufacturing model number.

Directly on the Ground

NOTE: The machines must be anchored directly on a concrete base. See Figure 15 .

**Figure 15**

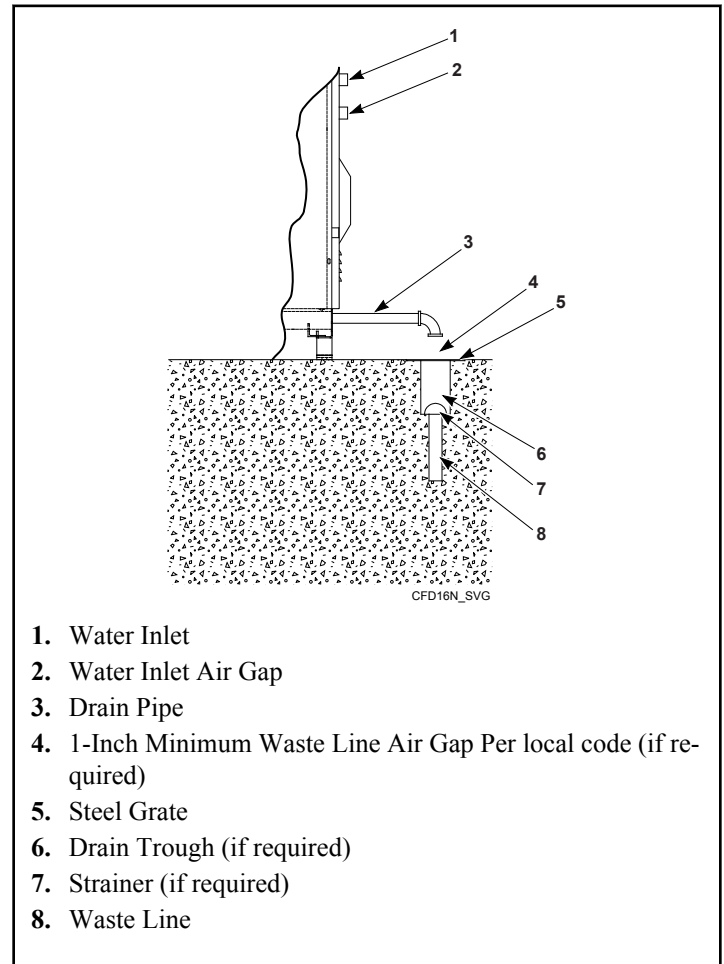
NOTE: Machine bolts should be rechecked on a quarterly basis.

Drain Connection

A drain system of adequate capacity is essential to machine performance.

The water should empty through a vented pipe directly into a sump or floor drain.

Figure 16 shows drain line and drain trough configurations.

**Figure 16**

A flexible connection must be made to a vented or air gap drain system to prevent an air lock and siphoning.

If proper drain size is not available or practical, a surge tank is required. A surge tank along with with a sump pump should be used when gravity drainage is not possible.

IMPORTANT: Machine must be installed in accordance with all local codes and ordinances.

Before any deviation from specified installation procedures is attempted, the customer or installer should contact the distributor.

Increasing the drain hose length, installing elbows, or causing bends will impair machine performance.

Refer to *Table 17* and *Table 18* for capacity-specific drain information.

NOTE: Installation of additional machines will require proportionately larger drain connections. Refer to *Table 19*.

Drain Information - Models 14 lb. (65 l), 18 lb. (75 l), 25 lb. (100 l), 30 lb. (135 l) and 33 lb. (150 l) Models					
Capacity lb. (l)	14 (65)	18 (75)	25 (100)	30 (135)	33 (150)
Drain connection size, ID	2 in. [49 mm]	2 in. [49 mm]	2 in. [49 mm]	3 in. [75 mm]	3 in. [75 mm]
Number of drain outlets	1	1	1	1	1
Drain flow capacity	21 gal/min [80 l/min]	21 gal/min [80 l/min]	21 gal/min [80 l/min]	42 gal/min [160 l/min]	42 gal/min [160 l/min]
Recom-mended drain pit size	2.19 ft3 [62 l]	2.45 ft3 [69.3 l]	3.09 ft3 [87.5 l]	4.33 ft3 [122.7 l]	4.58 ft3 [129.7 l]

Table 17

Drain Information - 35 lb. (165 l), 40 lb. (185 l), 55 lb. (235 l), 75 lb. (305 l) and 90 lb. (400 l) Models					
Capacity lb. (l)	35 (165)	40 (185)	55 (235)	75 (305)	90 (400)
Drain connection size, ID	3 in. [75 mm]	3 in. [75 mm]	3 in. [75 mm]	3 in. [75 mm]	3 in. [75 mm]
Number of drain outlets	1	1	1	1	1
Drain flow capacity	42 gal/min [160 l/min]	42 gal/min [160 l/min]	42 gal/min [160 l/min]	42 gal/min [160 l/min]	42 gal/min [160 l/min]
Recom-mended drain pit size	5.27 ft3 [149.1 l]	5.57 ft3 [157.6 l]	7.46 ft3 [211.2 l]	9.6 ft3 [271.7 l]	12.31 ft3 [348.7 l]

Table 18

Drain Line SizingMinimum Drain ID							
Capacity lb. (l)	Number of Machines						
	1	2	3	4	5	6	7
14 (65)	2 in. [50.8 mm]	3 in. [76.2 mm]	3.5 in. [88.9 mm]	4 in. [101.6 mm]	4.5 in. [114.3 mm]	5 in. [127 mm]	5.5 in. [139.7 mm]
18 (75)	2 in. [50.8 mm]	3 in. [76.2 mm]	3.5 in. [88.9 mm]	4 in. [101.6 mm]	4.5 in. [114.3 mm]	5 in. [127 mm]	5.5 in. [139.7 mm]
25 (100)	2 in. [50.8 mm]	3 in. [76.2 mm]	3.5 in. [88.9 mm]	4 in. [101.6 mm]	4.5 in. [114.3 mm]	5 in. [127 mm]	5.5 in. [139.7 mm]
30 (135)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
33 (150)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
35 (165)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
40 (185)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
55 (235)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
75 (305)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
90 (400)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]

Table 19

Water Connection



WARNING

To prevent personal injury, avoid contact with inlet water temperatures higher than 125° Fahrenheit [51° Celsius] and hot surfaces.

W748

Machines may be delivered with either two, three, or four hoses, depending on the number of water inlets used on the machine. The hoses include 3/4-inch hose connectors, depending on the water inlets.

NOTE: WRAS-approved models include three hoses.

In case of hot/cold water fill machines, a maximum temperature of hot water of 150°F [65°C] for OPL models or 120°F [50°C] for vended models should be available.

Connections should be supplied by a hot and a cold water line per national and local codes and in accordance with AS/NZS 3500.1.

To connect water service to machine with rubber hoses, use the following procedure:

1. Before installing hoses, flush the water system for at least two minutes.
2. Check filters in the machine's inlet hoses for proper fit and cleanliness before connecting.
3. For 75 lb. (305 l) and 90 lb. (400 l) models only, attach the Y-connector, which is included with the machine, to the faucets prior to connecting the water inlet hoses. Refer to *75 LB. (305 L) AND 90 LB. (400 L) CAPACITY MODELS*.

NOTE: 75 lb. (305 l) and 90 lb. (400 l) models include two cold water inlet valves and two hot water inlet valves.

4. Hang the hoses in a large loop, do not allow them to kink.

If additional hose length is needed, flexible hoses with screen filters are required. Each hose should have a screen filter installed to keep rust and other foreign particles out of the water inlet valves.

Pressure of 28-85 psi (2-6 bar) provides best performance. Although the machine will function at lower pressures, increased fill times will occur with some loss of supply flushing.

Suitable air cushions (risers) should be installed in supply lines to prevent "hammering."

Water Supply Information - 14 lb. (65 l), 18 lb. (75 l), 25 lb. (100 l), 30 lb. (135 l) and 33 lb. (150 l) Models					
Capacity lb. (l)	14 (65)	18 (75)	25 (100)	30 (135)	33 (150)
Water inlet connection size	3/4 in. [19 mm]	3/4 in. [19 mm]	3/4 in. [19 mm]	3/4 in. [19 mm]	3/4 in. [19 mm]
Number of water inlets (standard)	2	2	2	2	2
Recommended pressure	28-85 psi [2-6 bar]	28-85 psi [2-6 bar]	28-85 psi [2-6 bar]	28-85 psi [2-6 bar]	28-85 psi [2-6 bar]
Inlet flow capacity	5.3 gal/min [20 l/min]	5.3 gal/min [20 l/min]	5.3 gal/min [20 l/min]	5.3 gal/min [20 l/min]	5.3 gal/min [20 l/min]

Table 20

Water Supply Information - 35 lb. (165 l), 40 lb. (185 l), 55 lb. (235 l), 75 lb. (305 l) and 90 lb. (400 l) Models					
Capacity lb. (l)	35 (165)	40 (185)	55 (235)	75 (305)	90 (400)
Water inlet connection size	3/4 in. [19 mm]	3/4 in. [19 mm]	3/4 in. [19 mm]	3/4 in. [19 mm]	3/4 in. [19 mm]
Number of water inlets (standard)	2	2	2	4	4
Recommended pressure	28-85 psi [2-6 bar]	28-85 psi [2-6 bar]	28-85 psi [2-6 bar]	28-85 psi [2-6 bar]	28-85 psi [2-6 bar]
Inlet flow capacity	5.3 gal/min [20 l/min]	5.3 gal/min [20 l/min]	5.3 gal/min [20 l/min]	10.5 gal/min [40 l/min]	10.5 gal/min [40 l/min]

Table 21

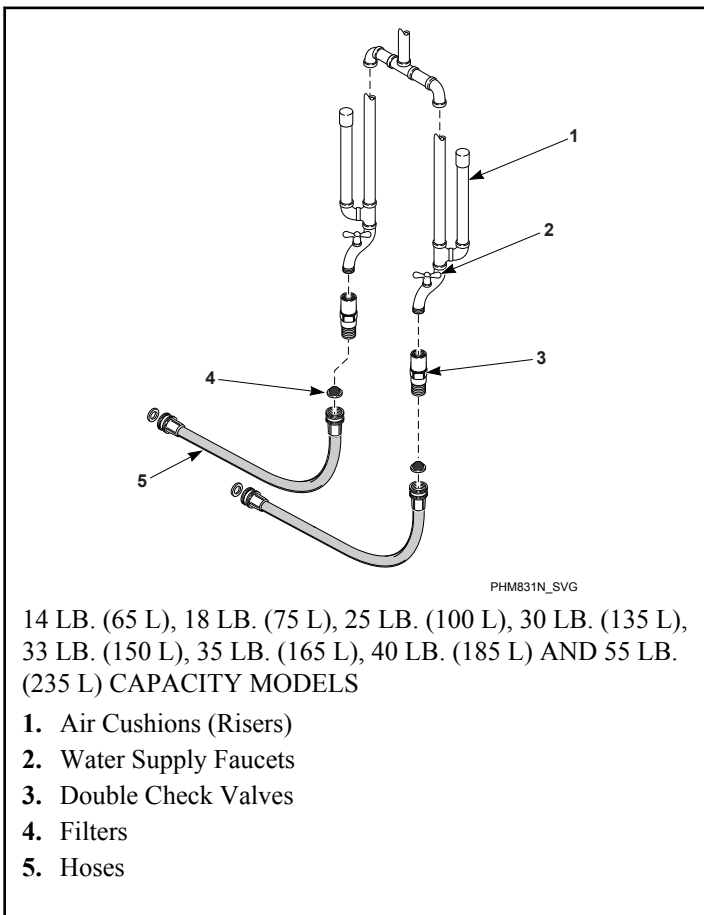


Figure 17

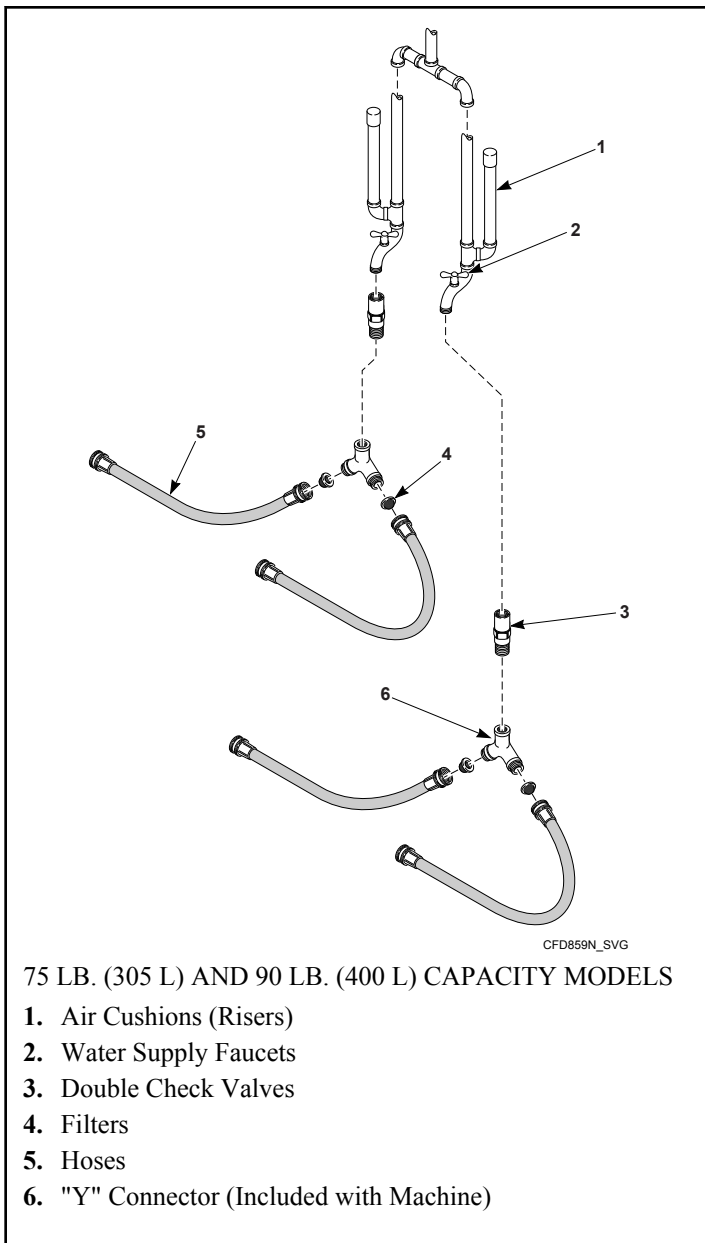


Figure 18

WRAS Water Connection

To comply with WRAS (IRN R150) and Australian water regulations, European standard EN1717 and Australian standard ATS5200.101, an approved double check valve backflow prevention device with the watermark is provided with the unit and must be fitted at the point of connection(s) between the supply and the fitting. Refer to *Figure 21*.

NOTE: No more than three water connection hoses should be used on WRAS-approved models.



Figure 19



Figure 20

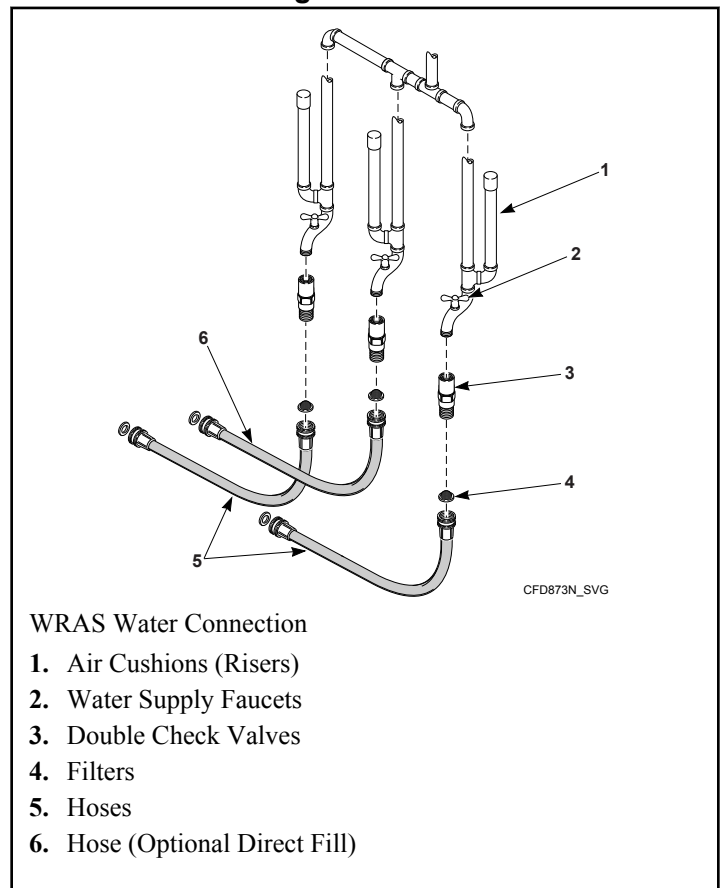




Figure 21

Electrical Installation

IMPORTANT: Electrical ratings are subject to change. Refer to serial decal for electrical ratings information specific to your machine.

IMPORTANT: Alliance Laundry Systems warranty does not cover compounds that fail as a result of improper input voltage

	WARNING
<p>Before starting wiring or inspection, power must be switched OFF. Check to make sure that the operation panel indicator is OFF. Any person who is involved in wiring or inspection shall wait for at least 10 minutes after the power supply has been switched OFF and check that there are no residual voltage using a tester or the like. The capacitor of the inverter or the EMC filter is charged with high voltage for some time after power is OFF and it is dangerous.</p>	
W795	


	WARNING
<p>Hazardous Voltage. Can cause shock, burn or death. Verify that a ground wire from a proven earth ground is connected to the lug near the input power block on this machine.</p>	
W360	

The AC inverter drive requires a clean power supply free from voltage spikes and surges. A voltage monitor should be used to check incoming power. The customer's local power company may provide such a monitor.

If input voltage measures above 240V for a 220V drive or above 415V for a 400V drive, ask the power company to lower the voltage. As an alternative, a step-down transformer kit is available from the distributor.

The AC drive provides overload protection for the drive motor. However, a separate single or three phase circuit breaker must be installed for complete electrical overload protection. This prevents damage to the motor by disconnecting all legs if one should be lost accidentally. Check the data plate on the back of the machine or consult *Table 22* for circuit breaker requirements.

IMPORTANT: Do NOT use fuses in place of a circuit breaker.

	DANGER
<p>Do not use a phase adder on any variable speed machine.</p>	
W490	

The machine should be connected to an individual branch circuit not shared with lighting or other equipment.

The connection should be shielded in a liquid tight or approved flexible conduit with proper conductors of correct size installed in accordance with the National Electric Code or other applicable codes. The connection must be made by a qualified electrician using the wiring diagram provided with the machine, or according to accepted European standards for CE-approved equipment.

Use wire sizes indicated in *Table 22* for runs up to 50 feet.

Use next larger size for runs of 50 to 100 feet. Use two sizes larger for runs greater than 100 feet.

For personal safety and proper operation, the machine must be grounded in accordance with state and local codes. If such codes are not available, grounding must conform with the National Electric Code, article 250 (current edition). The ground connection must be made to a proven earth ground, not to conduit or water pipes.

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci-ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
14 (65)	C	380-415	50/60	3	3+N +PE	4.5	15 [16]	14 [2.5]	11.60 - 6Kw (380V)	15 [16]	14 [2.5]
									13.40 - 6Kw (415V)		
14 (65)	N	440-480	50/60	3	3+PE	2	15 [6]	14 [2.5]	12 - 9Kw (440V-480V)	15 [16]	14 [2.5]
14 (65)	P	380-415	50/60	3	3+PE	2	15 [6]	14 [2.5]	10.1 - 6Kw (380V)	15 [16]	14 [2.5]
									11.0 - 6Kw (415V)		
14 (65)	Q	200-240	50/60	3	3+PE	N/A			16.3 - 6Kw (208V)	25 [20]	12 [2.5]
									19.7 - 6Kw (240V)		
14 (65)	X	200-240	50/60	1/3	2/3+PE	4.5	15 [16]	14 [2.5]	N/A		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci-ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
18 (75)	C	380-415	50/60	3	3+N+PE	4.5	15 [16]	14 [2.5]	16.20 - 9Kw (380V)	25 [20]	12 [2.5]
									18.80 - 9Kw (415V)		
18 (75)	N	440-480	50/60	3	3+PE	2	15 [6]	14 [2.5]	12 - 9kW (440V-480V)	15 [16]	14 [2.5]
18 (75)	P	380-415	50/60	3	3+PE	2	15 [6]	14 [2.5]	14.70 - 9Kw (380V)	25 [20]	12 [2.5]
									17.30 - 9Kw (415V)		
18 (75)	Q	200-240	50/60	3	3+PE	N/A			21 - 9Kw (208V)	30 [32]	10 [4]
									27.10 - 9Kw (240V)		
18 (75)	X	200-240	50/60	1/3	2/3+PE	4.5	15 [16]	14 [2.5]	N/A		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci-ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
25 (100)	C	380-415	50/60	3	3+N+PE	4.5	15 [16]	14 [2.5]	16.20 - 9Kw (380V)	25 [20]	12 [2.5]
									18.80 - 9Kw (415V)		
25 (100)	N	440-480	50/60	3	3+PE	2	15 [6]	14 [2.5]	12 - 9Kw (440V-480V)	15 [16]	14 [2.5]
25 (100)	P	380-415	50/60	3	3+PE	2	15 [6]	14 [2.5]	14.70 - 9Kw (380V)	20 [20]	12 [2.5]
									17.30 - 9Kw (415V)		
25 (100)	Q	200-240	50/60	3	3+PE	N/A			21 - 9Kw (208V)	30 [32]	10 [4]
									27.1 - 9Kw (240V)		
25 (100)	X	200-240	50/60	1/3	2/3+PE	4.5	15 [16]	14 [2.5]	N/A		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci-ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
30 (135)	C	380-415	50/60	3	3+N +PE	6.5	15 [16]	14 [2.5]	20.8 - 12Kw (380V)	30 [25]	10 [2.5]
									24.30 - 12Kw (415V)		
30 (135)	N	440-480	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	24.7 - 18Kw (440V)	40 [32]	8 [4]
									29.2 - 18Kw (480V)		
30 (135)	P	380-415	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	19.30 - 12Kw (380V)	30 [25]	10 [2.5]
									22.80 - 12Kw (415V)		
30 (135)	Q	200-240	50/60	3	3+PE	N/A			27.20 - 12Kw (208V)	40 [40]	8 [4]
									35.30 - 12Kw (240V)		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci- ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
30 (135)	X	200-240	50/60	1/3	2/3+PE	6.5	15 [16]	14 [2.5]	N/A		
33 (150)	C	380-415	50/60	3	3+N +PE	6.5	15 [16]	14 [2.5]	30.9 - 18Kw (380V)	40 [40]	8 [4]
									36.20 - 18Kw (415V)		
33 (150)	N	440-480	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	25.10 - 18Kw (440V)	40 [32]	8 [4]
									29.60 - 18Kw (480V)		
33 (150)	P	380-415	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	28.8 - 18Kw (380V)	40 [40]	8 [4]
									34.10 - 18Kw (415V)		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci-ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
33 (150)	Q	200-240	50/60	3	3+PE	N/A			40.5 - 18Kw (208V)	60 [63]	6 [10]
									52.8 - 18Kw (240V)		
33 (150)	X	200-240	50/60	1/3	2/3+PE	6.5	15 [16]	14 [2.5]	N/A		
35 (165)	C	380-415	50/60	3	3+N +PE	6.5	15 [16]	14 [2.5]	21.3 -12Kw (380V)	30 [25]	10 [2.5]
									24.8 - 12Kw (415V)		
									30.4 - 18Kw (380V)	40 [40]	8 [4]
									35.7 - 18Kw (415V)		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci-ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
35 (165)	N	440-480	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	24.9 - 18Kw (440V)	40 [32]	8 [4]
									29.4 - 18Kw (480V)		
35 (165)	P	380-415	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	19.5 - 12Kw (380V)	30 [25]	10 [2.5]
									23 -12Kw (415V)		
									28.6 - 18Kw (380V)	40 [40]	8 [4]
									33.9 - 18Kw (415V)		
35 (165)	Q	200-240	50/60	3	3+PE	N/A			40 - 18Kw (208V)	60 [63]	6 [10]
									52.3 - 18Kw (240V)		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
35 (165)	X	200-240	50/60	1/3	2/3+PE	6.5	15 [16]	14 [2.5]	N/A		
40 (185)	C	380-415	50/60	3	3+N +PE	6.5	15 [16]	14 [2.5]	30.9 - 18Kw (380V)	40 [40]	8 [4]
									36.20 - 18Kw (415V)		
40 (185)	N	440-480	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	25.1 - 18Kw (440V)	40 [32]	8 [4]
									29.6 - 18Kw (480V)		
40 (185)	P	380-415	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	28.8 - 18Kw (380V)	40 [40]	8 [4]
									34.1 - 18Kw (415V)		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci-ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
40 (185)	Q	200-240	50/60	3	3+PE	N/A			40.5 - 18Kw (208V)	60 [63]	6 [10]
									52.8 - 18Kw (240V)		
40 (185)	X	200-240	50/60	1/3	2/3+PE	6.5	15 [16]	14 [2.5]	N/A		
55 (235)	C	380-415	50/60	3	3+N +PE	6.5	15 [16]	14 [2.5]	31.40 - 18Kw (380V)	40 [40]	8 [4]
									36.7 - 18Kw (415V)		
55 (235)	N	440-480	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	25.3 - 18Kw (440V)	40 [32]	8 [4]
									29.8 - 18Kw (480V)		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci-ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
55 (235)	P	380-415	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	29 - 18Kw (380V)	40 [40]	8 [4]
									34.20 - 18Kw (415V)		
55 (235)	Q	200-240	50/60	3	3+PE	N/A			41 - 18Kw (208V)	60 [63]	6 [10]
									53.3 - 18Kw (240V)		
55 (235)	X	200-240	50/60	1/3	2/3+PE	6.5	15 [16]	14 [2.5]	N/A		
75 (305)	C	380-415	50/60	3	3+N +PE	7.5	15 [16]	14 [2.5]	44.7 - 24Kw (380V)	60 [63]	6 [10]
									51.7 - 24Kw (415V)		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci-ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
75 (305)	N	440-480	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	25.3 - 18Kw (440V)	40 [32]	8 [4]
									29.8 - 18Kw (480V)		
75 (305)	P	380-415	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	40.5 - 24Kw (380V)	60 [63]	6 [10]
									47.5 - 24Kw (415V)		
75 (305)	Q	200-240	50/60	3	3+PE	N/A			41 - 18Kw (208V)	60 [63]	6 [10]
									56 - 18Kw (240V)		
75 (305)	X	200-240	50/60	1/3	2/3+PE	7.5	15 [16]	14 [2.5]	N/A		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capaci-ty lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
90 (400)	C	380-415	50/60	3	3+N +PE	7.5	15 [16]	14 [2.5]	44.7 - 24Kw (380V)	60 [63]	6 [10]
									51.7 - 24Kw (415V)		
90 (400)	N	440-480	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	25.3 - 18Kw (440V)	40 [32]	8 [4]
									29.8 - 18Kw (480V)		
90 (400)	P	380-415	50/60	3	3+PE	2.5	15 [6]	14 [2.5]	40.5 - 24Kw (380V)	60 [63]	6 [10]
									47.5 - 24Kw (415V)		
90 (400)	Q	200-240	50/60	3	3+PE	N/A			41 - 18Kw (208V)	60 [63]	6 [10]
									56 - 18Kw (240V)		

Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]	Full Load Amps - Heating Element kw (Voltage)	Circuit Breaker U.S. [non - U.S.]	AWG [mm2]
90 (400)	X	200-240	50/60	1/3	2/3+PE	7.5	15 [16]	14 [2.5]	N/A		

Table 22

Electrical Connection

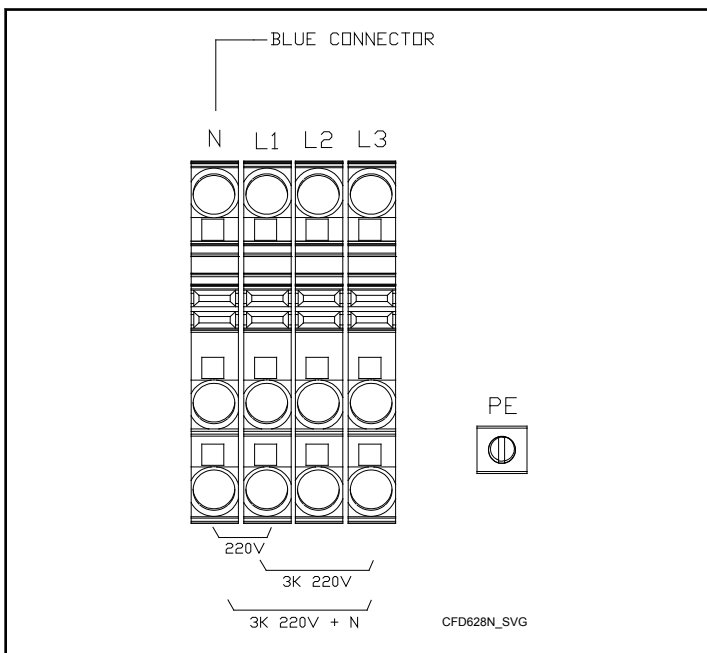


Figure 22

Remove the cover plate at the back of the machine. Using copper conductors only, connect the power cable to the connectors. Refer to the instructions listed on the machine's decal on how to connect the machine.

Machine without Electric Heating

Connect 200-240V single phase (1AC) to the connectors "N" and "L1". The green/yellow grounding clamp has to be the grounding wire "PE".

Machine with Electric Heating

200-240V 3AC

200-240V 3 phase (3AC) should be connected to the connectors "L1, L2, L3". Refer to *Figure 22*.

The green/yellow grounding clamp has to be connected to the grounding wire "PE".

380-415V 3AC + N


380-415V 3 phase (3AC + N) has to be connected to the connectors "L1, L2, L3", the blue neutral to the "N" connector. Refer to *Figure 22*.

The green/yellow grounding clamp has to be connected to the grounding wire "PE".

After electrical installation is complete, run the machine through a test cycle and check for a clockwise basket rotation during the extract step. If rotation is not clockwise, disconnect the power from the machine and have a qualified electrician reverse any 2 motor leads at the AC drive terminal block.

Remote Liquid Supply Connection

Chemical Injection Supply System



WARNING

Dangerous Chemicals. May damage eyes and skin. Wear eye and hand protection when handling chemicals; always avoid direct contact with raw chemicals. Read the manufacturer's directions for accidental contact before handling chemicals. Ensure an eye-rinse facility and an emergency shower are within easy reach. Check at regular intervals for chemical leaks.

W363

Undiluted chemical dripping can damage the machine. All chemical supply dispenser pumps should be mounted below the machine's injection point. All dispenser tubing should also run below the injection point. Loops do not prevent drips if these instructions are not followed.

IMPORTANT: Failure to follow these instructions could damage the machine and void the warranty.

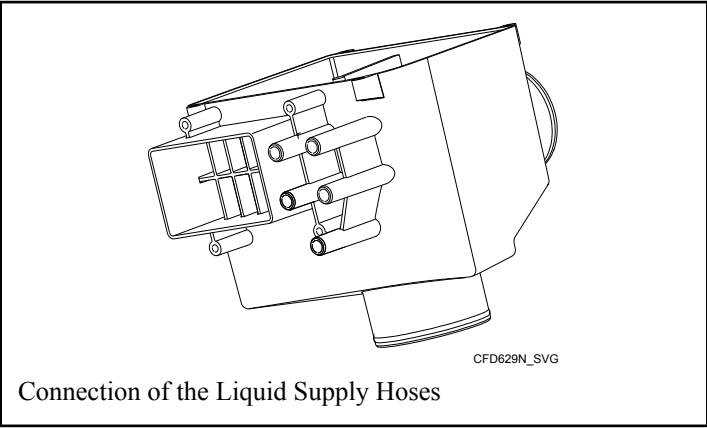



Figure 23

A connection has been placed at the back of the machine. There are five holes in this connection, through each of which a liquid supply hose can be connected.




CAUTION

Drill out plugs and nipples before making supply hose connection. Failure to do so can cause buildup of pressure and risk a tubing rupture.

W491

Steam Requirements (Steam Heat Option Only)



WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

For machines equipped with optional steam heat, install piping in accordance with approved commercial steam practices. Steam requirements are shown in *Table 23*.

Steam Supply Information		
Capacity lb. (l)	14 (65) , 18 (75), 25 (100), 30 (135), 33 (150), 35 (165), 40 (185)	55 (235), 75 (305), 90 (400)
Steam inlet connection, in [mm]	3/8 [10]	1/2 [13]
Number of steam inlets	1	1
Recommended pressure, psi [bar]	28 – 78 [2.0 – 5.5]	28 – 78 [2.0 – 5.5]

Steam Supply Information		
Capacity lb. (l)	14 (65) , 18 (75), 25 (100), 30 (135), 33 (150), 35 (165), 40 (185)	55 (235), 75 (305), 90 (400)
Maximum pressure, psi [bar]	78 [5.5]	78 [5.5]

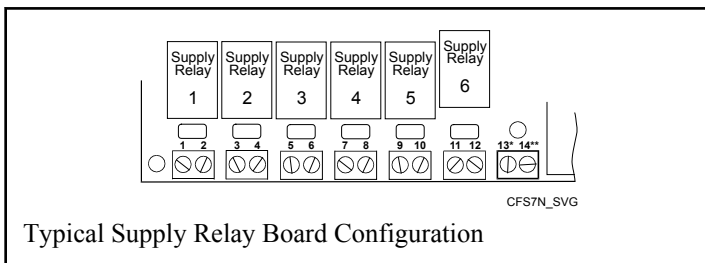
Table 23**Supply Programming Table**

When programming a supply step on the WE-8, choose between 9 different supply steps. Refer to *Table 24* .

Supply 1	Turns on the water valve in compartment A of the supply box.
Supply 2	Turns on the water valve in compartment B of the supply box.
Supply 3	Turns on the water valve in compartment C of the supply box.
Supply 4	Activates supply relay 1.
Supply 5	Activates supply relay 2.
Supply 6	Activates supply relay 3.
Supply 7	Activates supply relay 4.
Supply 8	Activates supply relay 5.
Supply 9	Activates supply relay 6.

Table 24

NOTE: The Supply button is button 6.

Supply Relay Configuration (No Wiring)**Figure 24**

* L1 (220 VAC) wire or terminal for remote liquid supply connection.

** L2 common wire (220 VAC) or terminal for remote liquid supply connection.

The supply relay board is set up to give NO Voltage AC output to the respective terminals. It is a dry contact closure of the relay. The voltage applied must be supplied with the jumper configurations. Refer to *Figure 24* .

Primary 220 Volt Remote Liquid Supply Connection

IMPORTANT: When programming a supply step, supplies 1, 2 and 3 DO NOT control the relays shown on *Figure 25* . Programming supply 1, 2 or 3 ONLY activates water in compartment A, B or C. Programming supply 4 activates relay 1. Programming supply 5 on the WE-8 will activate supply relay 2, etc. Programming supply 4-9 on the WE-8 will activate supply relay 1-6 on the board, respectively. Refer to *Table 24* .

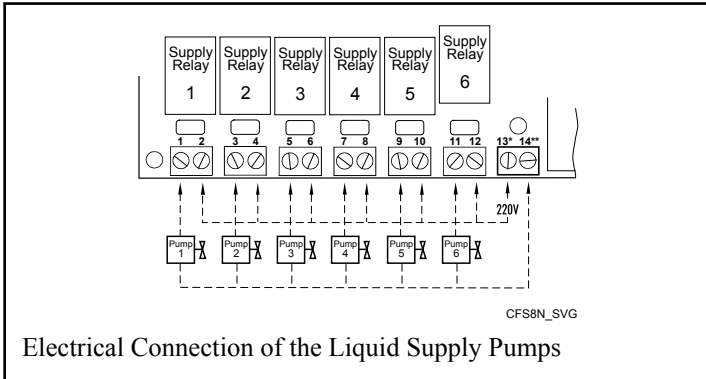


Figure 25

* L1 (220 VAC) wire or terminal for remote liquid supply connection.

** L2 common wire (220 VAC) or terminal for remote liquid supply connection.

Supply relay 1 controls terminals 1 and 2. *Figure 25* shows the jumper wire from terminal 13 (L1 220 VAC) to all other even pins (i.e., 2, 4, 6...). This applies L1 (220 VAC) to terminal 2. When supply 4 on the WE-8 is programmed, this will close supply relay 1 and apply L1 (220 VAC) through pin 2 to pin 1. This signal is used from the terminal to the chemical supply vendors first pump.

IMPORTANT: Supply 4 must be programmed on the WE-8 to create the signal on terminal 1. The chemical vendor will always use terminal 14 as the common terminal for all pumps. This will apply for the remainder of the 220 VAC circuit for each of the pump signals. For the remainder of the relays, supply relay 2 will control terminals 3 and 4; supply relay 3 will control terminals 5 and 6; etc.

IMPORTANT: The WE-8 must be programmed for supply 4-9 to energize the supply relays 1-6 respectively.

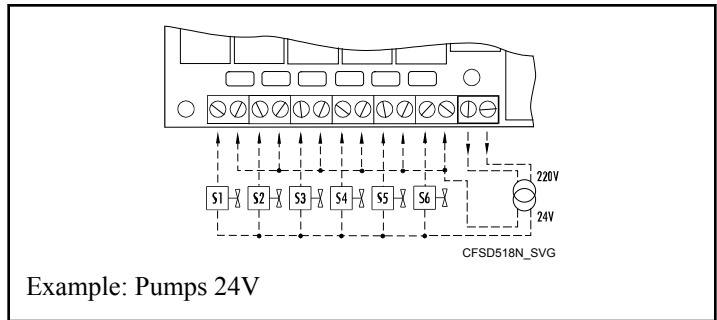


Figure 26

The 220V can be transformed to other values to drive other type supply pumps.

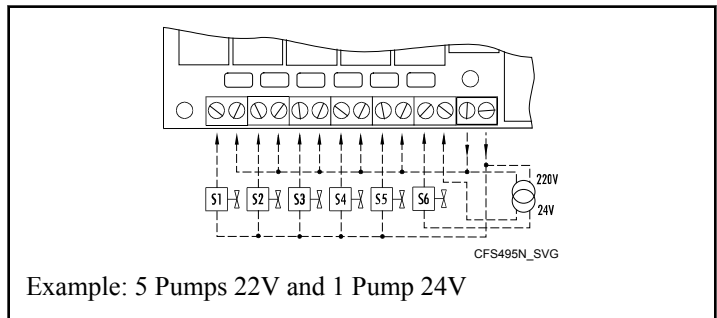


Figure 27

Also, pumps with different operating voltage requirements can be combined.

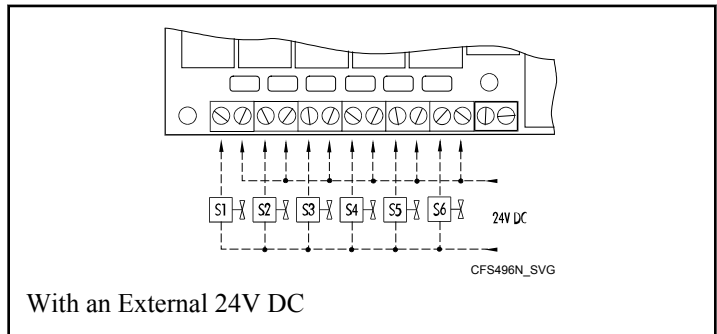


Figure 28

Out-of-Balance Switch

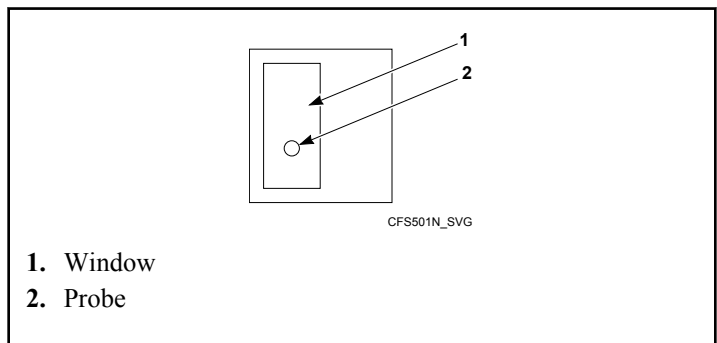


Figure 29

The out-of-balance switch is mounted on the upper right side on the back of the control panel. There is a window around the probe of the switch that is mounted on the movable part of the machine.

When the machine goes out of balance by overloading or uneven distribution of the linen, the out-of-balance switch will interrupt this action to prevent damage to the machine.

IMPORTANT: To guarantee good functioning, the probe should be centered horizontally and vertically at 1/3 from the bottom of the tilt window (when machine drum is empty).

Automatic Lubricator

Only for 75 lb. (305 l) and 90 lb. (400 l) Models

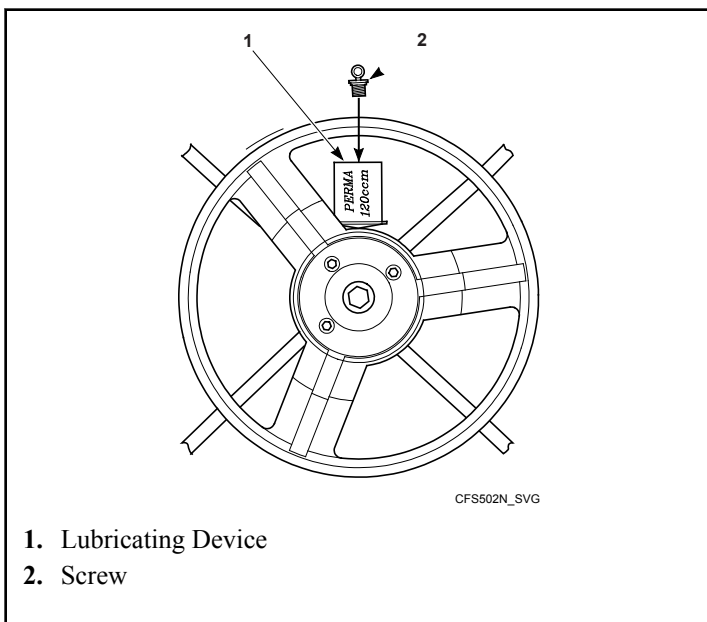


Figure 30

The bearing house of the machine is equipped with a lubricating device, refer to *Figure 30*, which automatically lubricates the bearing during one year. Upon delivery of the machine, this lubricator has been brought into use. When replacing, please put on the matching screw, refer to *Figure 30*, in the foreseen opening of the lubricator to activate.

	WARNING
<p>Ignoring this instruction will inevitably cause damage to the bearings and void the warranty!</p>	
<p>W492</p>	

Control Function Test

The machine should be cleaned after the installation is complete. A function test should then be executed on the unloaded machine:

1. Verify that power supply voltage and phase are correct in accordance with the machine's requirements.
2. Open manual shut-off valves to the machine.
3. Press the Emergency Stop button.
4. Apply power to the machine.
5. Release the Emergency Stop button.
6. Check the door interlock before starting operation:
 - a. Attempt to start the machine with the door open. The machine should not start.
 - b. Close the door without locking it and attempt to start the machine. The machine should not start.
 - c. Attempt to open the door while a cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, call a qualified service technician.

7. For standard processing, select Cycle 01 by pressing key 0 and key 1 on the keypad. Then press the Start key (or run factory test cycle 39 by pressing key 3, key 9 and Start key).

Run a complete cycle, checking operation of water inlet valves, drain, and extract functions.

8. Cylinder rotation must be clockwise in an extract step for all models. If rotation is not correct, disconnect power. A qualified electrician must reverse any two motor leads between the AC drive and the main drive motor. Refer to *Figure 31*.

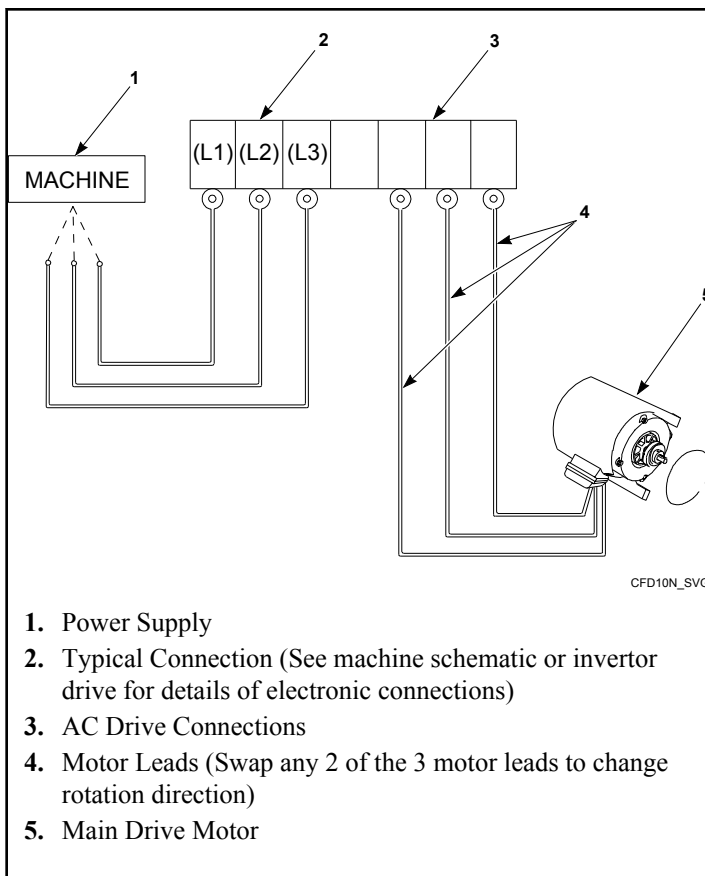


Figure 31

Disposal of Unit

This appliance is marked according to the European directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Refer to *Figure 32*. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Ensuring this product is disposed of correctly will help prevent potential negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact the local city office, household waste disposal service, or the source from which the product was purchased.

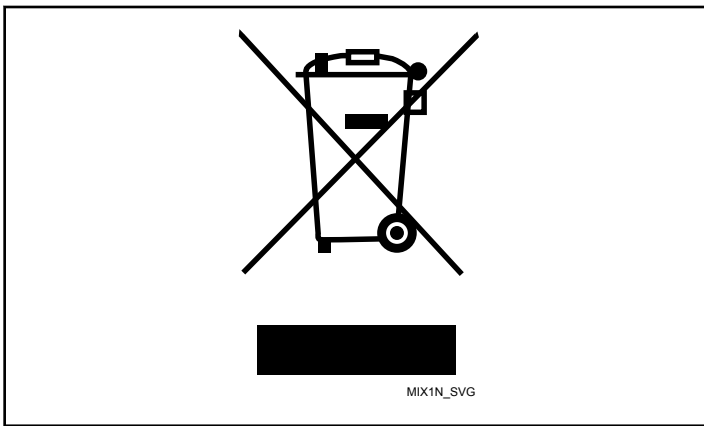


Figure 32